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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 05	CASREACT(R) - Over 10 million reactions available
NEWS	4	DEC 14	2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS	5	DEC 14	2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS	6	DEC 14	CA/CAplus to be enhanced with updated IPC codes
NEWS	7	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
NEWS	8	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	9	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	12	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	13	JAN 30	Saved answer limit increased
NEWS	14	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
NEWS	15	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	16	FEB 22	Status of current WO (PCT) information on STN
NEWS	17	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	18	FEB 22	Updates in EPFULL; IPC 8 enhancements added

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

```
FILE 'HOME' ENTERED AT 11:30:16 ON 27 FEB 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:30:30 ON 27 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   26 FEB 2006  HIGHEST RN 875270-69-2
DICTIONARY FILE UPDATES:  26 FEB 2006  HIGHEST RN 875270-69-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10241333.str
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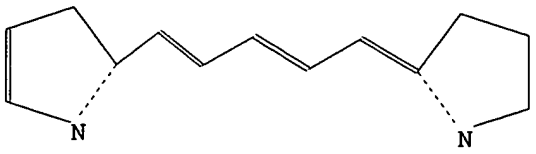
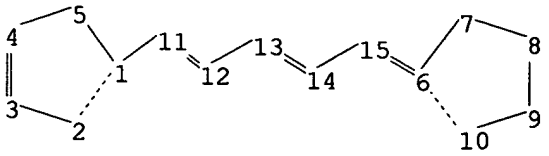


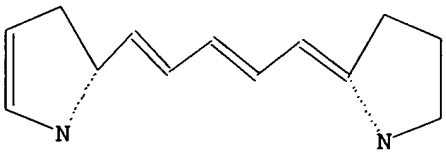


chain nodes :
11 12 13 14 15
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
1-11 6-15 11-12 12-13 13-14 14-15
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact bonds :
1-11 6-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 11:30:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 286 TO ITERATE

100.0% PROCESSED 286 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4706 TO 6734
PROJECTED ANSWERS: 1503 TO 2737

L2 50 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 11:30:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5782 TO ITERATE

100.0% PROCESSED 5782 ITERATIONS 2479 ANSWERS
SEARCH TIME: 00.00.01

L3 2479 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 166.94 167.15

FILE 'CAPLUS' ENTERED AT 11:30:58 ON 27 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 27 Feb 2006 VOL 144 ISS 10
FILE LAST UPDATED: 26 Feb 2006 (20060226/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4 2370 L3

=> s l4 and tag
22423 TAG
8674 TAGS
26434 TAG
(TAG OR TAGS)
L5 58 L4 AND TAG

=> s l4 and biotin
28887 BIOTIN
110 BIOTINS
28897 BIOTIN
(BIOTIN OR BIOTINS)
L6 188 L4 AND BIOTIN

=> s l6 and (thiester or aminothiol)
0 THIESTER
536 AMINOTHIOL
421 AMINOTHIOLS
762 AMINOTHIOL
(AMINOTHIOL OR AMINOTHIOLS)
L7 1 L6 AND (THIESTER OR AMINOTHIOL)

=> s l6 and (thioester or aminothiol)
3589 THIOESTER
2079 THIOESTERS

```
          4752 THIOESTER
                 (THIOESTER OR THIOESTERS)
           536 AMINOTHIOL
           421 AMINOTHIOLS
           762 AMINOTHIOL
                 (AMINOTHIOL OR AMINOTHIOLS)
L8           1 L6 AND (THIOESTER OR AMINOTHIOL)

=> s l6 and thioester
          3589 THIOESTER
          2079 THIOESTERS
          4752 THIOESTER
                 (THIOESTER OR THIOESTERS)
L9           0 L6 AND THIOESTER

=> s l6 and aminothiol
           536 AMINOTHIOL
           421 AMINOTHIOLS
           762 AMINOTHIOL
                 (AMINOTHIOL OR AMINOTHIOLS)
L10          1 L6 AND AMINOTHIOL

=> s l5 and (thioester or aminothiol)
          3589 THIOESTER
          2079 THIOESTERS
          4752 THIOESTER
                 (THIOESTER OR THIOESTERS)
           536 AMINOTHIOL
           421 AMINOTHIOLS
           762 AMINOTHIOL
                 (AMINOTHIOL OR AMINOTHIOLS)
L11          1 L5 AND (THIOESTER OR AMINOTHIOL)

=> s l5 and (?thiol or thio?)
        101585 ?THIOL
        516215 THIO?
L12          4 L5 AND (?THIOL OR THIO?)

=> s l6 and (?thiol or thio?)
        101585 ?THIOL
        516215 THIO?
L13         15 L6 AND (?THIOL OR THIO?)

=> dup rem l12 l13
PROCESSING COMPLETED FOR L12
PROCESSING COMPLETED FOR L13
L14          18 DUP REM L12 L13 (1 DUPLICATE REMOVED)
               ANSWERS '1-18' FROM FILE CAPLUS

=> s l14 and bioaffinity
L15          4 S L14
L16         14 S L14
           571 BIOAFFINITY
             2 BIOAFFINITIES
           573 BIOAFFINITY
                 (BIOAFFINITY OR BIOAFFINITIES)
L17          1 (L15 OR L16) AND BIOAFFINITY

=> d l17 ibib abs hitstr tot

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:100690  CAPLUS
DOCUMENT NUMBER:          140:146515
```

TITLE: Site-specific labeling of proteins using cyanine dye reporters
INVENTOR(S): Cotton, Graham John
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004023408	A1	20040205	US 2002-241333	20020911
CA 2493309	AA	20040205	CA 2003-2493309	20030728
WO 2004011556	A1	20040205	WO 2003-GB3196	20030728
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003246957	A1	20040216	AU 2003-246957	20030728
EP 1525266	A1	20050427	EP 2003-771163	20030728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005534739	T2	20051117	JP 2004-523938	20030728
US 2005239144	A1	20051027	US 2005-522675	20050127
PRIORITY APPLN. INFO.:			GB 2002-17556 A	20020730
			US 2002-241333 A	20020911
			WO 2003-GB3196 W	20030728

OTHER SOURCE(S): MARPAT 140:146515

AB The invention provides new cyanine dye reagents and methods that afford direct attachment of the cyanine dye reporter to either the N-terminus or C-terminus of a synthetic or recombinant peptide or protein and their derivs., in a site-specific manner, coupled with purification of the resultant labeled mol. Compds. D-L1-M(F)-L2-B [D is a fluorescent cyanine dye; B is a **bioaffinity tag**; F is a chemical entity which includes a target bonding group selected from the group consisting of **thioester** groups and 1,2-**aminothiol** groups; M is a group adapted for attaching to F; L1, L2 are groups containing 1-40 linked atoms selected from carbon atoms which may optionally include one or more groups selected from NH, alkylimino, O, CH:CH, CONH, or phenylenyl] are claimed. Thus, α-D-desthiobiotin-ε-Cy5-L-lysine-MESNA (Cy5 is a dye and MESNA is HSCH2CH2SO3H) was prepared and used to label N-terminal cysteine Grb2SH2.

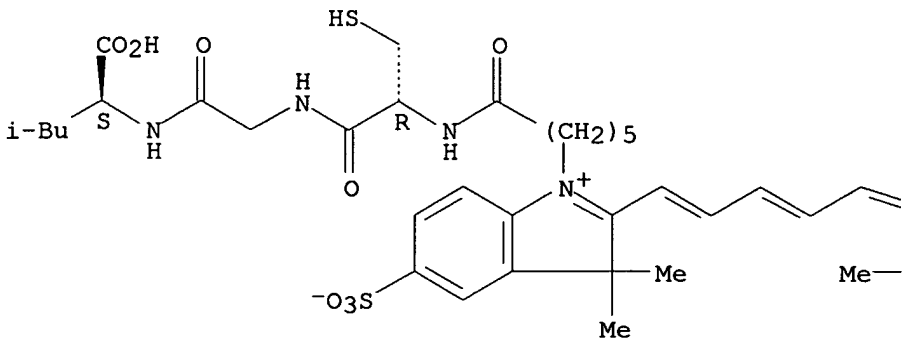
IT **653605-42-6**
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(site-specific labeling of proteins using cyanine dye reporters)

RN 653605-42-6 CAPLUS

CN L-Leucine, N-[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]-L-cysteinylglycyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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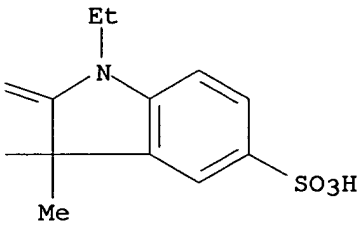
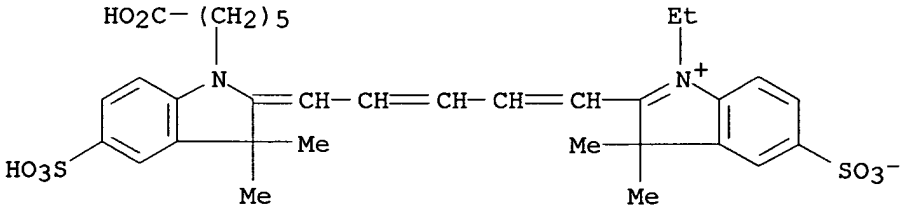


IT **146368-11-8 449175-58-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(site-specific labeling of proteins using cyanine dye reporters)

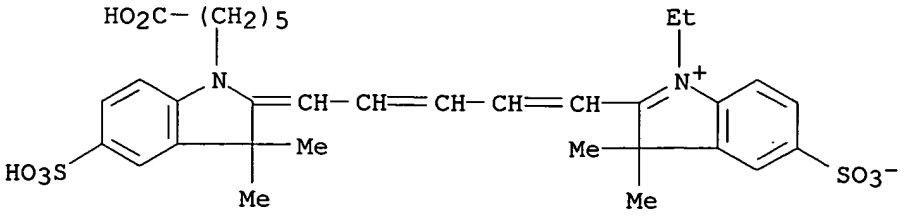
RN 146368-11-8 CAPLUS

CN 3H-Indolium, 2-[5-[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)



RN 449175-58-0 CAPLUS

CN 3H-Indolium, 2-[5-[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt, monopotassium salt (9CI) (CA INDEX NAME)



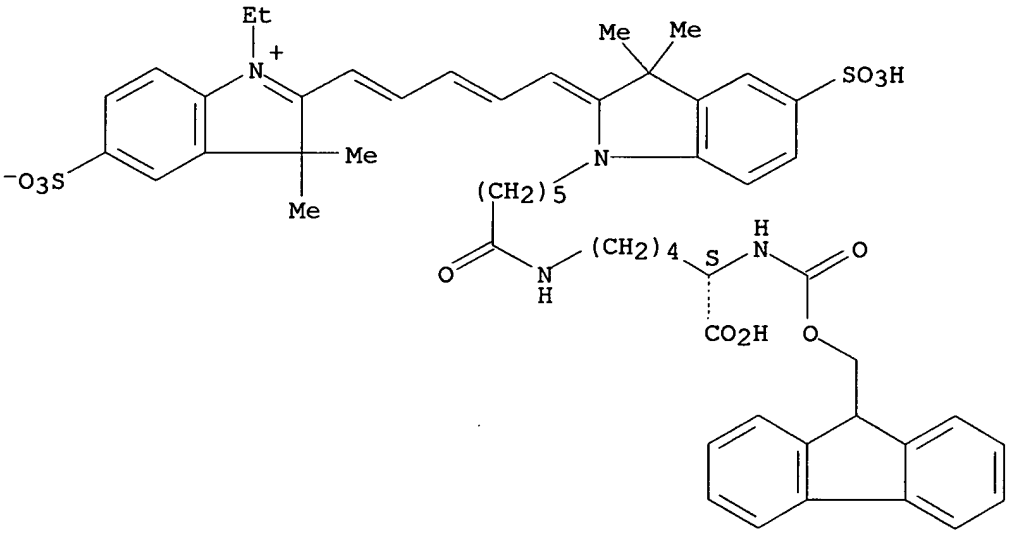
● K

IT **312961-84-5P 312961-85-6P 653605-40-4P**
653605-41-5P 653605-43-7P 653605-44-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(site-specific labeling of proteins using cyanine dye reporters)

RN 312961-84-5 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-carboxy-5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]pentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

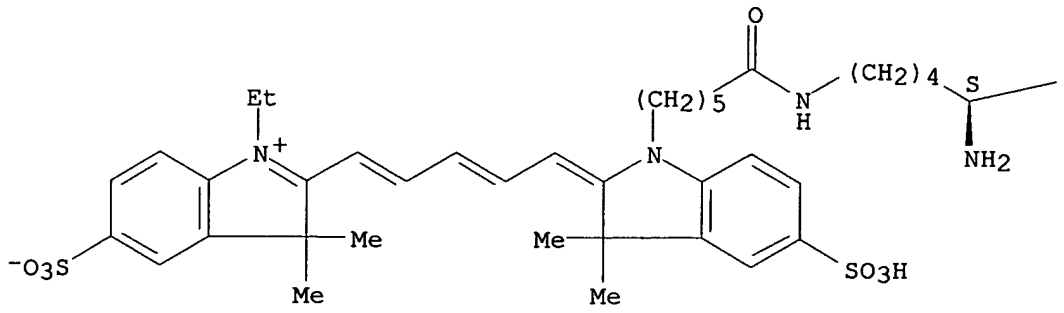


RN 312961-85-6 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-amino-5-carboxypentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

RN 653605-40-4 CAPLUS
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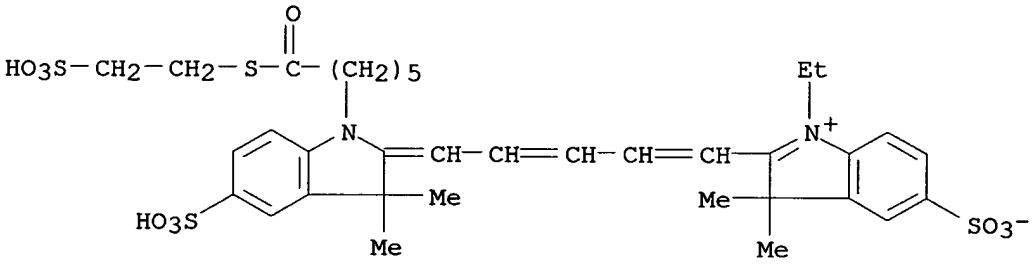
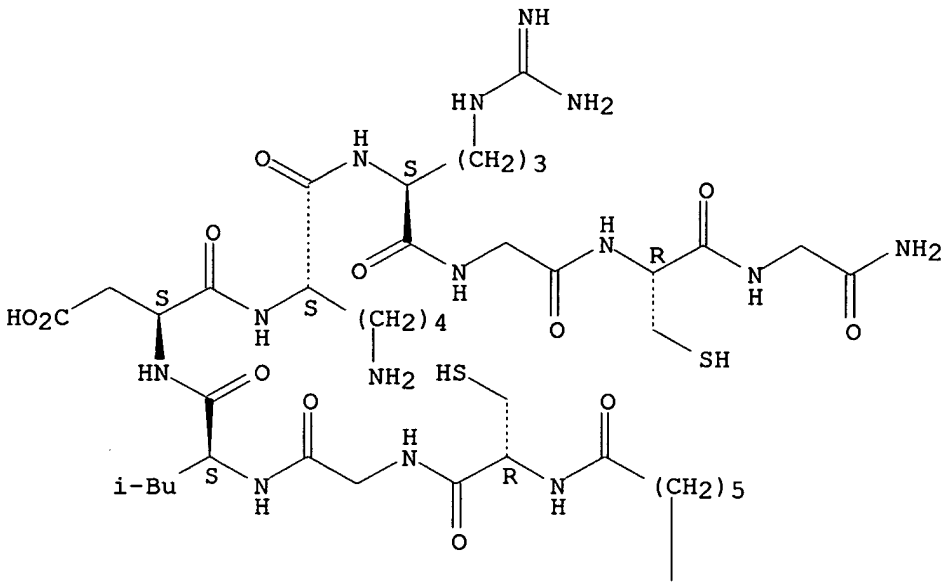


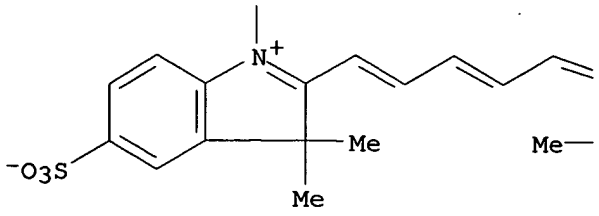
RN 653605-41-5 CAPLUS
CN Glycinamide, N-[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]-L-cysteinylglycyl-L-leucyl-L-α-aspartyl-L-lysyl-L-arginylglycyl-L-cysteinyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



Et
|

PAGE 2-A



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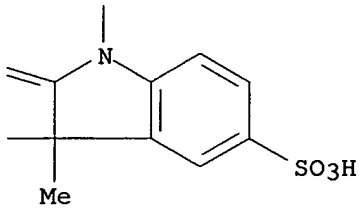
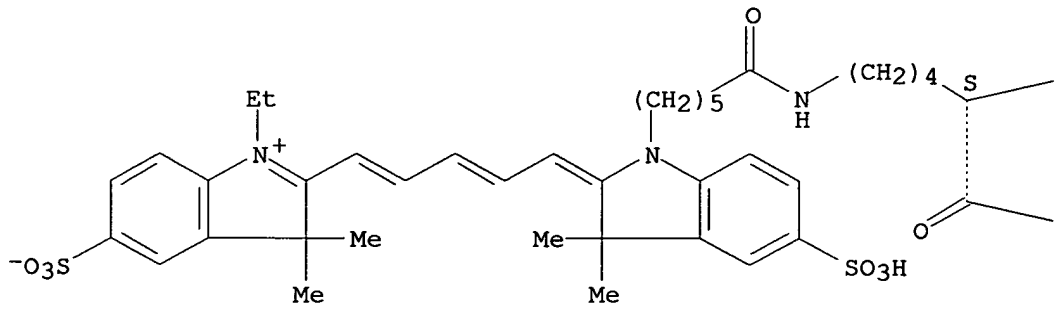


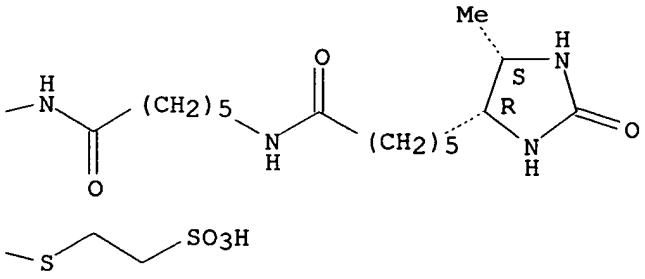
RN 653605-43-7 CAPLUS
CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



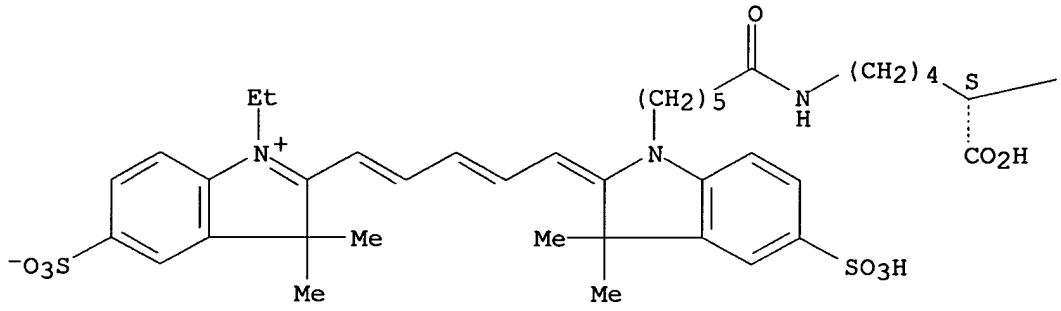
PAGE 1-B



RN 653605-44-8 CAPLUS
CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-carboxy-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]pentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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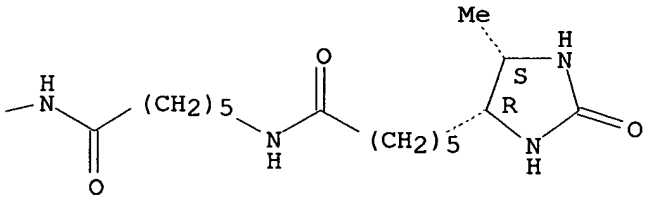
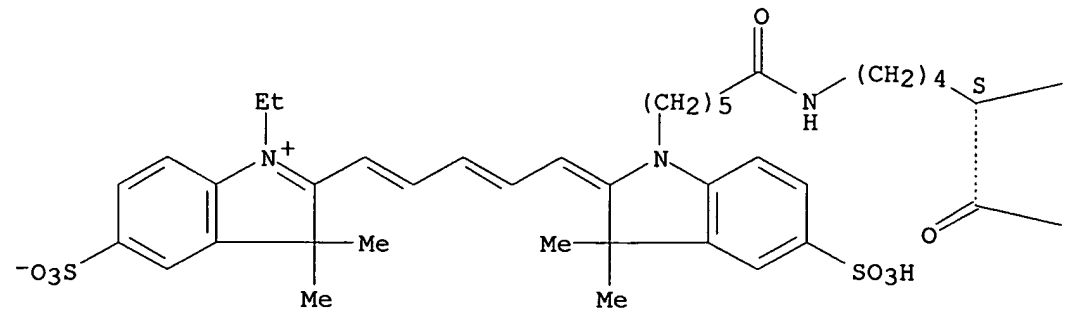


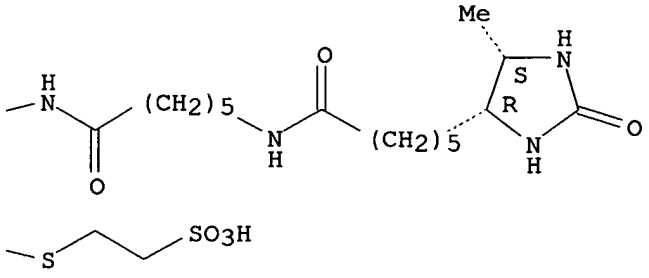
IT **653605-43-7DP**, conjugate with an N-terminal cysteine derivative of Grb2 protein SH2 domain
RL: SPN (Synthetic preparation); PREP (Preparation)
(site-specific labeling of proteins using cyanine dye reporters)
RN 653605-43-7 CAPLUS
CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



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=> s l14 not l17
L18           4 S L14
L19          14 S L14
L20          17 (L18 OR L19) NOT L17

=> d l20 ibib abs hitstr tot

L20  ANSWER 1 OF 17  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:1078102  CAPLUS
DOCUMENT NUMBER:          143:362862
TITLE:                    Cysteine-containing peptide tag for
                          site-specific conjugation of proteins
INVENTOR(S):              Backer, Marina V.; Backer, Joseph M.
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 59 pp., Cont.-in-part of U.S.
                          Ser. No. 872,712.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   2
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     US 2005221431         A1    20051006    US 2005-83508            20050318
     US 2003059461         A1    20030327    US 2001-872712           20010601
PRIORITY APPLN. INFO.:                       US 2000-209660P      P   20000606
                                             US 2001-872712       A2  20010601
AB   The present invention is directed to a biol. conjugate, comprising: (a) a
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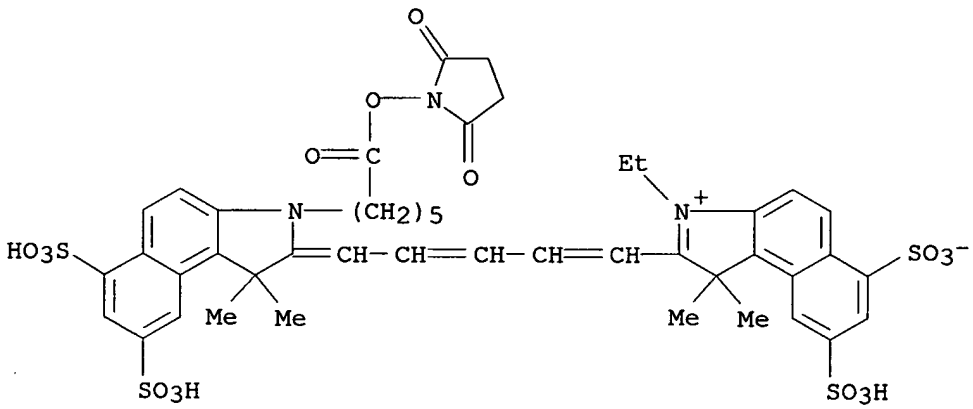
targeting moiety comprising a polypeptide having an amino acid sequence comprising the a 15-amino acid portion of human RNase I with an Arg-4→Cys mutation and the polypeptide sequence of a selected targeting protein; and (b) a binding moiety bound to the targeting moiety; the biol. conjugate having a covalent bond between the **thiol** group of the RNase I fragment and a functional group in the binding moiety. The present invention is also directed to a biol. conjugate, comprising: (a) a human RNase I targeting moiety and the polypeptide sequence of a selected targeting protein; and (b) a binding moiety that comprises an adapter protein, the adapter protein having a **thiol** group; the biol. conjugate having a disulfide bond between the **thiol** group of the RNase I fragment and the **thiol** group of the adapter protein. Adaptor proteins are based on chimeric BH-RNase comprising residues 1-29 of bovine RNase A fused to residues 3-127 of human RNase I. Selected targeting proteins comprise vascular endothelial growth factor, annexin V, and anthrax lethal factor. The present invention is also directed to biol. sequences employed in the above biol. conjugates, as well as pharmaceutical prepns. and methods using the above biol. conjugates.

IT **172777-84-3**, Cy 5.5
RL: RCT (Reactant); RACT (Reactant or reagent)
(conjugation of; cysteine-containing peptide **tag** for site-specific conjugation of proteins)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

L20 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	2005:467846 CAPLUS
DOCUMENT NUMBER:	143:22605
TITLE:	Flow cytometric, particle-based binding assay for the determination of transient protein-protein interactions
INVENTOR(S):	Baumgrass, Ria; Blex, Christian
PATENT ASSIGNEE(S):	Deutsches Rheuma-Forschungszentrum Berlin, Germany
SOURCE:	Eur. Pat. Appl., 21 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1536230	A1	20050601	EP 2003-90412	20031128

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

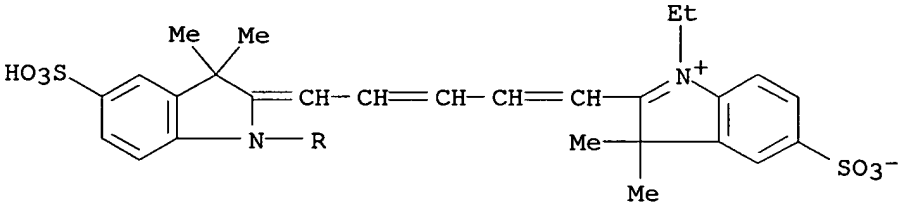
PRIORITY APPLN. INFO.: EP 2003-90412 20031128

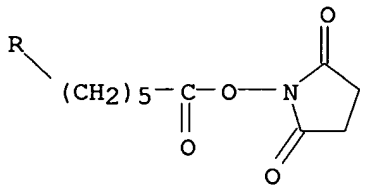
AB The invention concerns a method for the detection of transient protein-protein interactions in a way that the first protein is labeled and the second protein is combined with a **tag**; the two proteins are contacted and incubated with anti-**tag** coated particles; the particles are analyzed by flow cytometry and the detection of the label is correlated to the protein-protein interaction. The interaction between first protein calcineurin and second protein nuclear factor of activated T-cell (NFAT) was studied. Mols. were screened that inhibit calmodulin-NFAT binding; FITC-labeled calmodulin and biot-VIVID, a biotinylated 17mer optimized binding peptide of NFAT were used. The invention also concerns a test kit for carrying out the assay.

IT **146368-14-1D**, Cy5, derivs.
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Cy5; flow cytometric, particle-based binding assay for determination of transient protein-protein interactions)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:300690 CAPLUS
DOCUMENT NUMBER: 142:351752
TITLE: Surface immobilized polyelectrolyte with multiple functional groups capable of covalently bonding to biomolecules
INVENTOR(S): Wang, Xinwen; Banerjee, Sukanta
PATENT ASSIGNEE(S): Bioarray Solutions, Ltd., USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005031305	A2	20050407	WO 2004-US31058	20040922
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005260611	A1	20051124	US 2004-947095	20040922
PRIORITY APPLN. INFO.:			US 2003-504716P	P 20030922

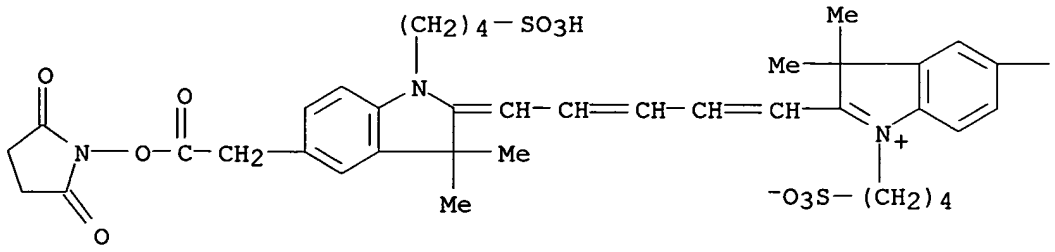
AB A polyelectrolyte having multiple exposed functional groups, each such group being capable of covalently bonding to a mol., is immobilized on a surface for the purpose of bonding to a biomol. The biomol. can be, for example, a nucleic acid, e.g., an amine functionalized oligonucleotide. The polyelectrolyte can include, e.g., BSA (Bovine Serum Albumin) which is bound to a functionalized surface using a covalent immobilization strategy, e.g., reaction with the surface of a tosyl-activated microparticle. Following such reaction, exposed reactive functional groups on the protein, such as amine, carboxyl, **thiol**, hydroxyl groups can further be utilized to covalently couple the oligonucleotide of interest using suitable chemical Tosylated fluorescence colored beads were reacted with BSA. The EDAC reaction was used to couple aminated oligonucleotide probes to the BSA beads. The oligonucleotide functionalized beads were used in a hybridization assay.

IT **144377-05-9D**, Cy5, conjugates with DNA target
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(oligonucleotide-functionalized beads hybridization with; surface immobilized polyelectrolyte with multiple functional groups capable of covalently bonding to biomols.)

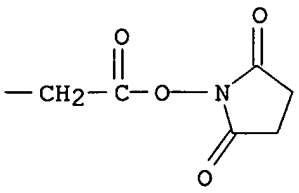
RN 144377-05-9 CAPLUS

CN 3H-Indolium, 5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-2-[5-[5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na



L20 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:60755 CAPLUS
Correction of: 2004:1036570
DOCUMENT NUMBER: 142:154259
Correction of: 142:36938
TITLE: Analysis of genetic information contained in peripheral blood for diagnosis, prognosis and monitoring treatment of allergy, infection and genetic disease in human
INVENTOR(S): Liew, Choong-Chin
PATENT ASSIGNEE(S): Chondrogene Limited, Can.
SOURCE: U.S. Pat. Appl. Publ., 155 pp., Cont.-in-part of U.S. Ser. No. 802,875.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 47
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241726	A1	20041202	US 2004-812707	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241726	A1	20041202	US 2004-812707	20040330
US 2004241726	A1	20041202	US 2004-812707	20040330
US 2004265869	A1	20041230	US 2004-812716	20040330
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812707	A 20040330

AB The present invention is directed to detection and measurement of gene transcripts and their equivalent nucleic acid products in blood. Specifically provided is anal. performed on a drop of blood for detecting, diagnosing, and monitoring diseases, and in particular allergy, using gene-specific and/or tissue-specific primers. Affymetrix Human Genome U133 and ChondroChip microarrays were used to detect differentially expressed gene transcripts in hypertension, obesity, allergy, systemic steroids, coronary artery disease, diabetes type 2, hyperlipidemia, lung disease, bladder cancer, rheumatoid arthritis, osteoarthritis, liver cancer, schizophrenia, Chagas disease, asthma, and manic depression syndrome. The present invention describes methods by which delineation of the sequence and/or quantitation of the expression levels of disease-specific genes allows for an immediate and accurate diagnostic/prognostic test for disease or to

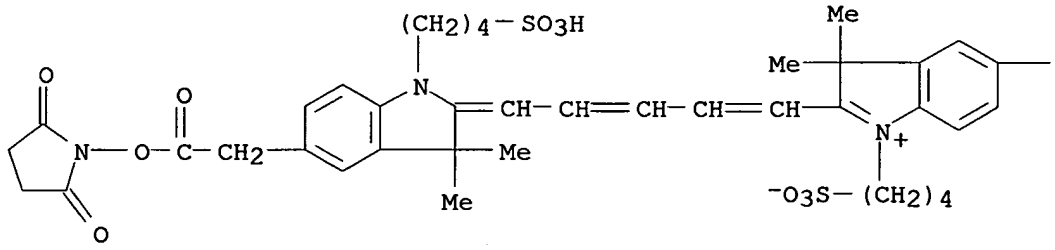
assess the effect of a particular treatment regimen. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT **144377-05-9**, Cy 5
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Cy 5; anal. of genetic information contained in peripheral blood for diagnosis, prognosis and monitoring treatment of allergy, infection and genetic disease in human)

RN 144377-05-9 CAPLUS

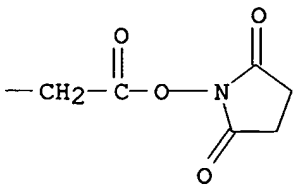
CN 3H-Indolium, 5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-2-[5-[5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



L20 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:1036551 CAPLUS
DOCUMENT NUMBER: 142:18995
TITLE: Transcriptional incorporation of adenine analogs into RNA and use of the analog-containing RNAs
INVENTOR(S): Huang, Faqing
PATENT ASSIGNEE(S): University of Southern Mississippi, USA
SOURCE: U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

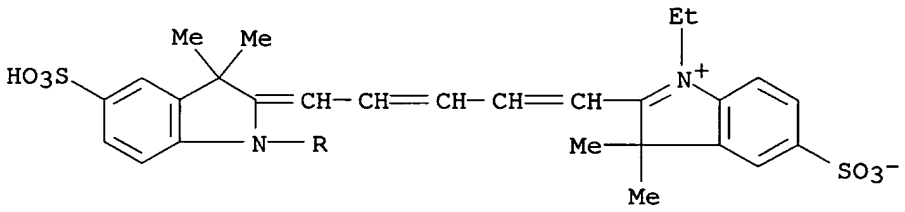
US 2004241649 A1 20041202 US 2003-250029 20030529
PRIORITY APPLN. INFO.: US 2003-250029 20030529

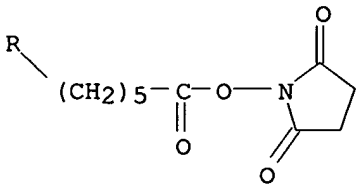
AB Methods of incorporating adenosine analogs and derivs. into the 5'-ends of an RNA by transcription are described. These adenosine derivs. may include naturally occurring compds. such as CoA, NAD, and FAD, as well as synthetic analogs containing reactive groups or nuclease-resistant phosphate backbone analogs. The derivs. can be used to impart desirable properties to the RNA such as fluorescence, the ability to bind to receptors or ligands, and improved catalytic activity. The transcribed RNAs can be used in a variety of applications including nucleic acid detection, designed or random generation of catalytic RNAs, antisense applications, and in the study of RNA structure and function. The incorporation is achieved by in vitro transcription using all four nucleoside triphosphates and the triphosphate of the adenine analog. The analog is present at significantly higher concentration than the ATP.

IT **146368-14-1D**, Cy5, RNA containing
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(transcriptional incorporation of adenine analogs into RNA and use of analog-containing RNAs)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





L20 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:327559 CAPLUS
DOCUMENT NUMBER: 142:51536
TITLE: DDI-μFIA-a readily configurable microarray-fluorescence immunoassay based on DNA-directed immobilization of proteins
AUTHOR(S): Wacker, Ron; Niemeyer, Christof M.
CORPORATE SOURCE: CHIMERA BIOTEC GmbH, Dortmund, D-44227, Germany
SOURCE: ChemBioChem (2004), 5(4), 453-459
CODEN: CBCHFX; ISSN: 1439-4227
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

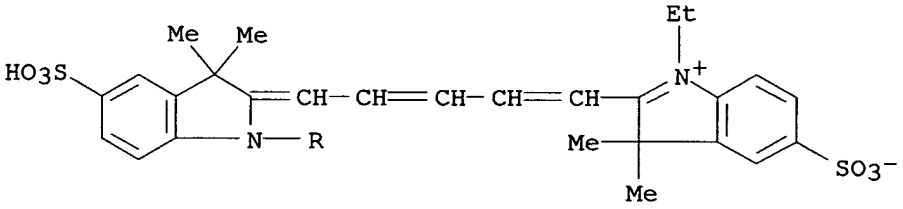
AB We describe a chip-based immunoassay for multiplex antigen detection, based on the self-assembly of semi-synthetic DNA - protein conjugates to generate an easily configurable protein microarray. The general principle of this microarray-fluorescence immunoassay (μFIA) is similar to that of a two-sided (sandwich) immunoassay. However, covalent single-stranded DNA - streptavidin conjugates are employed for the efficient

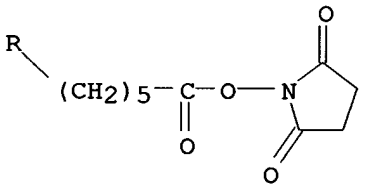
immobilization of biotinylated capture antibodies through hybridization to complementary surface-bound DNA oligomers. In a model system, we use the DNA-directed immobilization (DDI) of antibodies to generate an antibody microarray for the parallel detection of the tumor marker human carcinoembryonic antigen (CEA), recombinant mistletoe lectin rViscumin (rVis), ceruloplasmin (CEP), and complement-1-inactivator (C1A) in human blood serum samples. Detection limits down to 400 pg mL-1 are reached. In addition, we describe a method for the internal standardization of protein microarray analyses, based on the simultaneous measurement of constant amts. of the blood proteins CEP and C1A, intrinsically present in human serum, to compensate for interexperimental variations usually occurring in microarray analyses. The standardization leads to a significantly higher data reliability and reproducibility in intra- and interassay measurements. We further demonstrate that the DDI-μFIA can also be carried out in a single step by tagging of the analyte simultaneously with both capture and detection antibody and subsequent immobilization of the immunocomplex formed, on the DNA microarray capture matrix. This protocol significantly reduces handling time and costs of anal.

IT **146368-14-1D**, Cy5, reaction with streptavidin
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(DDI-FIA-a readily configurable microarray-fluorescence immunoassay based on DNA-directed immobilization of proteins)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:981813 CAPLUS

DOCUMENT NUMBER: 141:187167

TITLE: First results on label-free detection of DNA and protein molecules using a novel integrated sensor technology based on gravimetric detection principles

AUTHOR(S): Gabl, R.; Feucht, H.-D.; Zeininger, H.; Eckstein, G.; Schreiter, M.; Primig, R.; Pitzer, D.; Wersing, W.

CORPORATE SOURCE: Corporate Technology, Siemens AG, Munich, 81739, Germany

SOURCE: Biosensors & Bioelectronics (2004), 19(6), 615-620
CODEN: BBIOE4; ISSN: 0956-5663

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

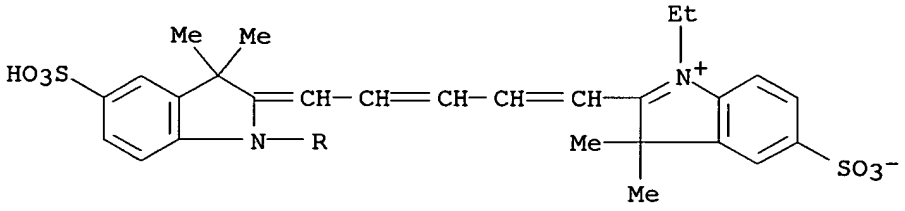
LANGUAGE: English

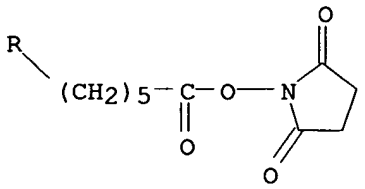
AB A novel integrated bio-sensor technol. based on thin-film bulk acoustic wave resonators on silicon is presented and the feasibility of detecting DNA and protein mols. proofed. The detection principle of these sensors is label-free and relies on a resonance frequency shift caused by mass loading of an acoustic resonator, a principle very well known from quartz crystal micro balances. Integrated ZnO bulk acoustic wave resonators with resonance frequencies around 2 GHz have been fabricated, employing an acoustic mirror for isolation from the silicon substrate. DNA oligos have been **thiol**-coupled to the gold electrode by on-wafer dispensing. In a further step, samples have either been hybridized or alternatively a protein has been coupled to the receptor. The measurement results show the new bio-sensor being capable of both, detecting proteins as well as the DNA hybridization without using a label. Due to the substantially higher oscillation frequency, these sensors already show much higher sensitivity and resolution comparable to quartz crystal micro balances. The potential for these sensors and sensors arrays as well as technol. challenges will be discussed in detail.

IT **146368-14-1D**, Cy5, reaction with nucleotides
RL: ANT (Analyte); ANST (Analytical study)
(label-free detection of DNA and protein mols. using novel integrated sensor technol. based on gravimetric detection principles)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:818556 CAPLUS
DOCUMENT NUMBER: 139:318385
TITLE: New method and kit of DNA sequencing using nucleotide labeled with fluorescent dyes via disulfide bond from capped **thiol** groups
INVENTOR(S): Olsson, Charlotta; Tooke, Nigel
PATENT ASSIGNEE(S): Pyrosequencing AB, Swed.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

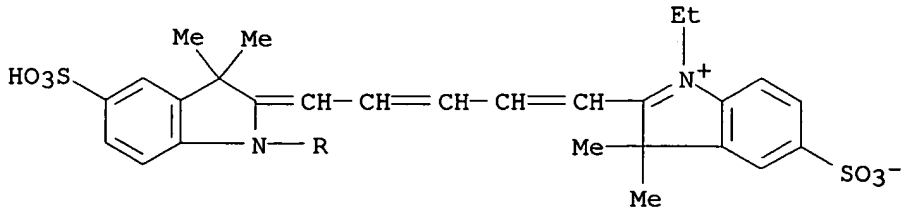
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2003085135	A1	20031016	WO 2003-SE547		20030404
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
CA 2481495	AA	20031016	CA 2003-2481495		20030404
AU 2003214765	A1	20031020	AU 2003-214765		20030404
EP 1495137	A1	20050112	EP 2003-710595		20030404
EP 1495137	B1	20050914			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
JP 2005521422	T2	20050721	JP 2003-582312		20030404
AT 304610	E	20050915	AT 2003-710595		20030404
US 2005244827	A1	20051103	US 2005-510107		20050523
PRIORITY APPLN. INFO.:			SE 2002-1024	A	20020404
			US 2002-369599P	P	20020404
			WO 2003-SE547	W	20030404

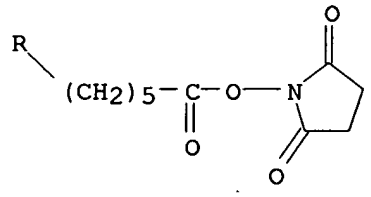
AB The present invention relates to a method for determining the sequence of a nucleic acid mol. comprising the steps of: (a) providing a single-stranded form of said nucleic acid mol.; (b) hybridizing a primer to said single stranded form of said nucleic acid mol. to form a template/primer complex; (c) enzymically extending the primer by the addition of a polymerase and a mixture of at least one nucleotide and at least one labeled derivative of the at least one nucleotide, wherein the at least one labeled derivative of the at least one nucleotide comprises a label linked to the nucleotide via a cleavable link and wherein the amount of labeled derivative of the at least one nucleotide in said mixture of the at least one nucleotide and the labeled derivative of the at least one nucleotide is within the range of 1-50 mol-%, 1-40 mol-%, 1-30 mol-%, or 1-20 mol-%. (d) determining the type of nucleotide added to the primer; and (e) repeating steps (c) to (d) at least once. In particular embodiments, capping **thiol** groups of Cy5-SS-dCTP is shown to protect the incorporated nucleotide from premature cleavage. Also demonstrated are the linear relationship between the fluorescent signal and number of bases incorporated in homopolymer stretches with Cy5-SS-dCTP/dCTP mixes. The selectivity of the polymerase for labeled against non-labeled nucleotides, in particular, UTP and GTP, are demonstrated under a variety of nucleotide mixture conditions using Klenow exo-DNA polymerase.

IT **146368-14-1D**, Cy5, conjugated to nucleotide
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(new method and kit of DNA sequencing using nucleotide labeled with fluorescent dyes via disulfide-containing linkage)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:376654 CAPLUS
DOCUMENT NUMBER: 138:390922
TITLE: Arsenide compound system for selective targeting of apoptotic cells
INVENTOR(S): Hogg, Philip John
PATENT ASSIGNEE(S): Unisearch Limited, Australia
SOURCE: PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003039564	A1	20030515	WO 2002-AU1523	20021108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2466303	AA	20030515	CA 2002-2466303	20021108
EP 1453525	A1	20040908	EP 2002-774165	20021108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005511598	T2	20050428	JP 2003-541855	20021108
US 2005101524	A1	20050512	US 2003-494822	20021108
PRIORITY APPLN. INFO.:			AU 2001-8746	A 20011108
			WO 2002-AU1523	W 20021108

OTHER SOURCE(S): MARPAT 138:390922

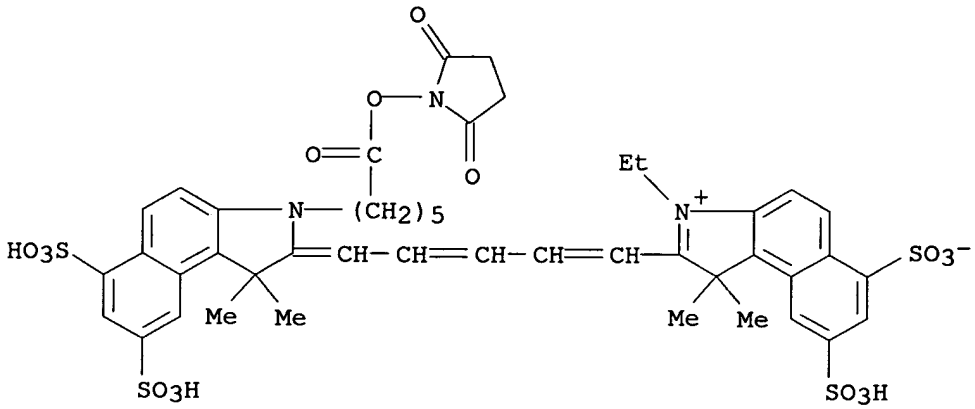
AB The invention discloses a method of selectively targeting an active agent (or agent capable of becoming an active agent) to apoptotic cells in a vertebrate, comprising administering to the vertebrate a system comprising an arsenoxide (or arsenoxide equivalent) compound and the agent, wherein the system selectively targets apoptotic cells. Preparation of e.g.

4-[N-(S-glutathionylacetyl)amino]phenylarsenoxide is described.

IT **172777-84-3**, Cy5.5
RL: DGN (Diagnostic use); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(arsenide compound system for selective targeting of apoptotic cell)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

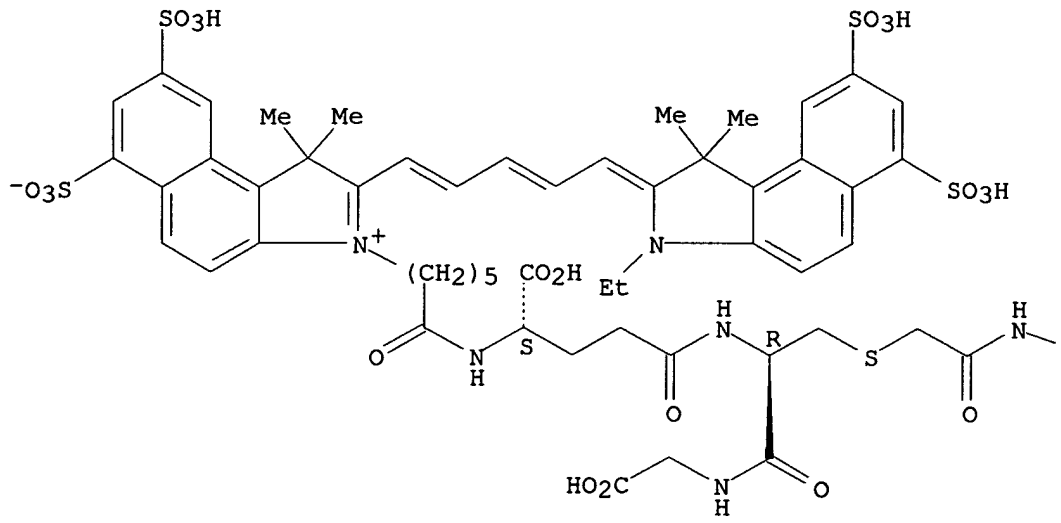
IT **331722-80-6P 525549-67-1P**
RL: DGN (Diagnostic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(arsenide compound system for selective targeting of apoptotic cell)

RN 331722-80-6 CAPLUS

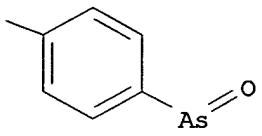
CN Glycine, N-[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]-L-γ-glutamyl-S-[2-[(4-arsenosophenyl)amino]-2-oxoethyl]-L-cysteinyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



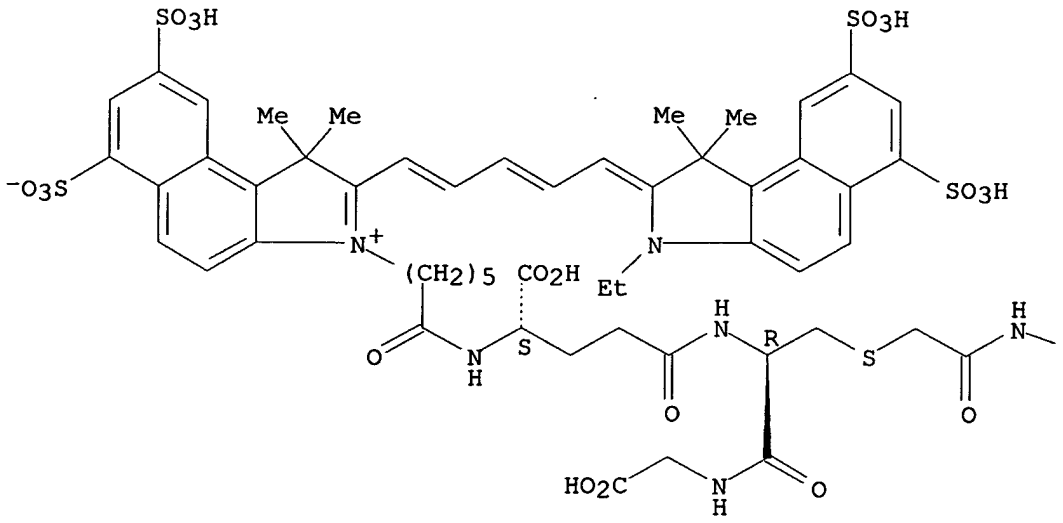
PAGE 1-B



RN 525549-67-1 CAPLUS
CN Glycine, N-[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]-L-γ-glutamyl-S-[2-[(4-arsonophenyl)amino]-2-oxoethyl]-L-cysteinyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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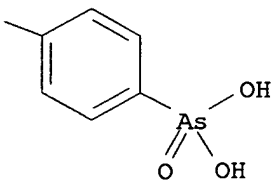


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:58701 CAPLUS
DOCUMENT NUMBER: 138:119557
TITLE: Peptidomimetic protein-binding microarrays on mirrored substrates for performing proteomic analyses
INVENTOR(S): Charych, Deborah; Beausoleil, Eric; Zuckermann, Ronald N.
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 32 pp., Cont.-in-part of U.S. Pat. Appl. 2002 55,125.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

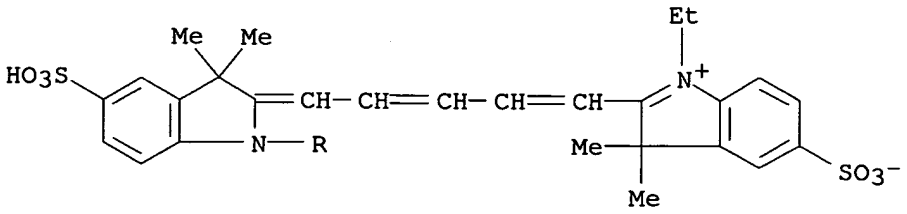
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003017508	A1	20030123	US 2002-190308	20020703
US 2002055125	A1	20020509	US 2001-874091	20010604
CA 2491618	AA	20040115	CA 2003-2491618	20030703
WO 2004005319	A2	20040115	WO 2003-US21127	20030703
WO 2004005319	A3	20041028		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1540345	A2	20050615	EP 2003-763248	20030703
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005535872	T2	20051124	JP 2004-519920	20030703
PRIORITY APPLN. INFO.:			US 2000-209711P	P 20000605
			US 2001-874091	A2 20010604
			US 2002-190308	A 20020703
			WO 2003-US21127	W 20030703

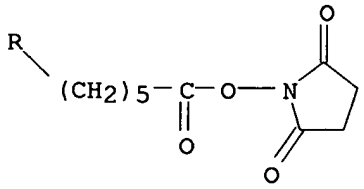
AB Provided are peptidomimetic protein-binding arrays, their manufacture, use, and application. The protein-binding array elements of the invention include a peptidomimetic segment linked to a solid support via a stable anchor. The invention contemplates peptidomimetic array element library synthesis, distribution, and spotting of array elements onto solid planar substrates, labeling of complex protein mixts., and the anal. of differential protein binding to the array. The invention also enables the enrichment or purification, and subsequent sequencing or structural anal. of proteins that are identified as differential by the array screen. Kits including proteomic microarrays in accordance with the present invention are also provided. Slides were prepared with a reflective aluminum coating that was further overcoated with a thin silicon dioxide dielec., followed by APTES. The Al/SiO2 substrate amplified the signal from Cy3/Cy5 tagged cDNA by approx. 10-40 fold relative to the corresponding glass substrate.

IT **146368-14-1**, Cy5
RL: RCT (Reactant); RACT (Reactant or reagent)
(proteins reaction with; peptidomimetic protein-binding microarrays on mirrored substrates for performing proteomic analyses)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





L20 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:869122 CAPLUS
DOCUMENT NUMBER: 137:364361
TITLE: Methods for fragmenting and labeling nucleic acids for diagnosis of diseases
INVENTOR(S): Bourget, Cecile; Kotera, Mitsuharu; Lhomme, Jean; Trevisiol, Emmanuelle; Laayoun, Ali; Tora, Christelle; Sothier, Isabelle
PATENT ASSIGNEE(S): Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
SOURCE: PCT Int. Appl., 161 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090584	A2	20021114	WO 2002-FR1542	20020503
WO 2002090584	A3	20030925		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2824335	A1	20021108	FR 2001-6039	20010504
CA 2444926	AA	20021114	CA 2002-2444926	20020503
US 2003143555	A1	20030731	US 2002-137460	20020503
EP 1383925	A2	20040128	EP 2002-738211	20020503
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004527258	T2	20040909	JP 2002-587643	20020503
PRIORITY APPLN. INFO.:			FR 2001-6039 A	20010504
			US 2001-310273P P	20010807
			WO 2002-FR1542 W	20020503

OTHER SOURCE(S): MARPAT 137:364361
AB The invention concerns a method for labeling and fragmenting a

single-stranded or double-stranded DNA (DNA) comprising fragmenting the DNA by generating an abasic site on said DNA, attaching a marker on at least one of the fragments by means of a labeling reagent,. The labeling reagent is covalently bonded on at least one phosphate of said DNA fragment. The invention is applicable in the field of diagnosis.

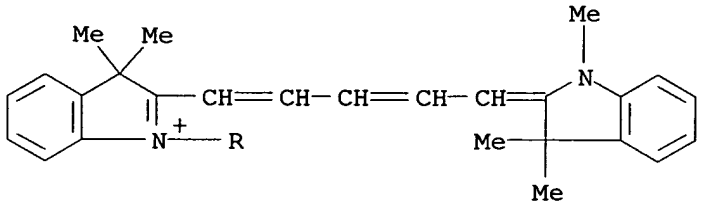
IT **475270-49-6P**

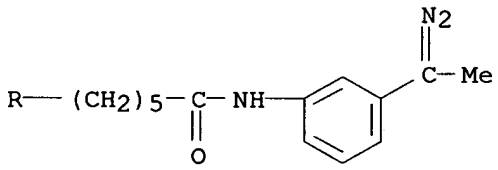
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(methods for fragmenting and labeling nucleic acids for diagnosis of diseases)

RN 475270-49-6 CAPLUS

CN 3H-Indolium, 1-[6-[[3-(1-diazoethyl)phenyl]amino]-6-oxohexyl]-2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-, chloride (9CI) (CA INDEX NAME)





● Cl^-

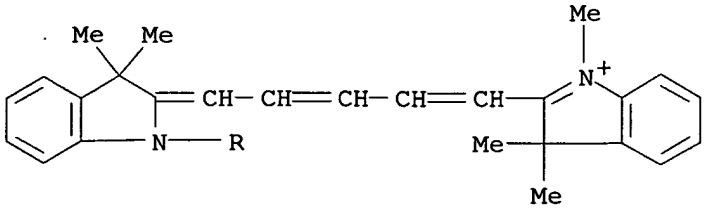
IT **475114-21-7P 475114-47-7P 475114-48-8P 475114-49-9P 475114-50-2P 475270-50-9P 475270-52-1P 475270-59-8P**

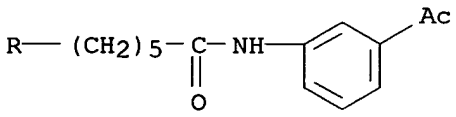
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(methods for fragmenting and labeling nucleic acids for diagnosis of diseases)

RN 475114-21-7 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(3-acetylphenyl)amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-, chloride (9CI) (CA INDEX NAME)



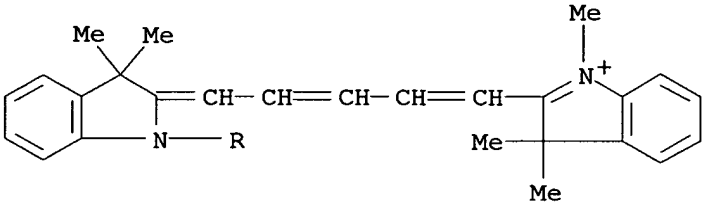


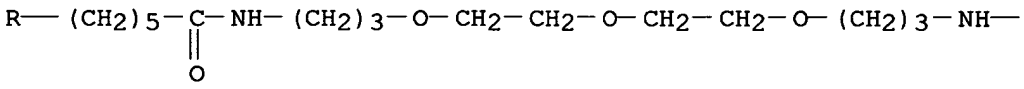
● Cl⁻

RN 475114-47-7 CAPLUS

CN 3H-Indolium, 2-[5-[1-[22-[4-(dimethoxymethyl)phenyl]-6,22-dioxo-11,14,17-trioxa-7,21-diazadocos-1-yl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A





● I⁻

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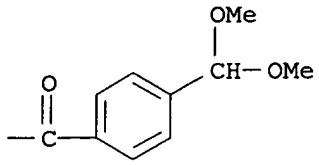
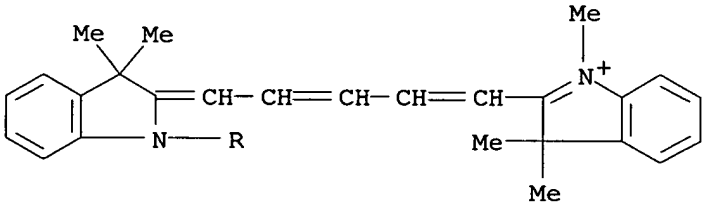
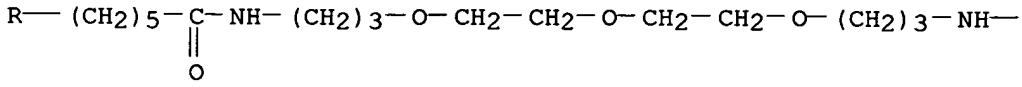


RN 475114-48-8 CAPLUS
CN 3H-Indolium, 2-[5-[1-[22-(4-formylphenyl)-6,22-dioxo-11,14,17-trioxa-7,21-diazadocos-1-yl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A





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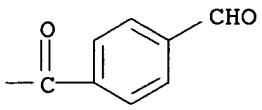
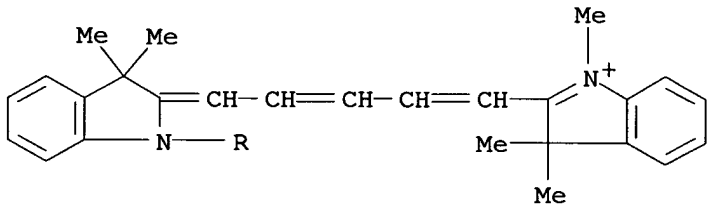
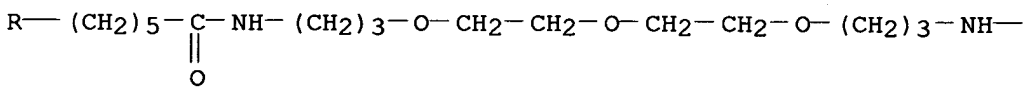


RN 475114-49-9 CAPLUS
CN 3H-Indolium, 2-[5-[1-[22-[4-(hydrazonomethyl)phenyl]-6,22-dioxo-11,14,17-trioxa-7,21-diazadocos-1-yl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-, chloride (9CI) (CA INDEX NAME)

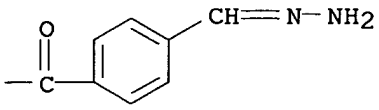
PAGE 1-A





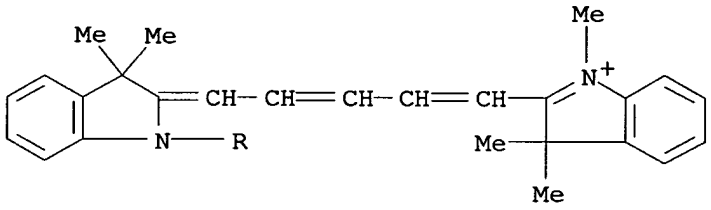
● Cl^-

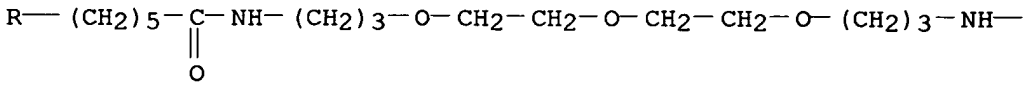
PAGE 1-B



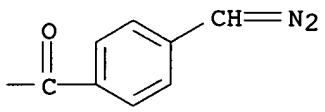
RN 475114-50-2 CAPLUS
CN 3H-Indolium, 2-[5-[1-[22-[4-(diazomethyl)phenyl]-6,22-dioxo-11,14,17-trioxa-7,21-diazadocos-1-yl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

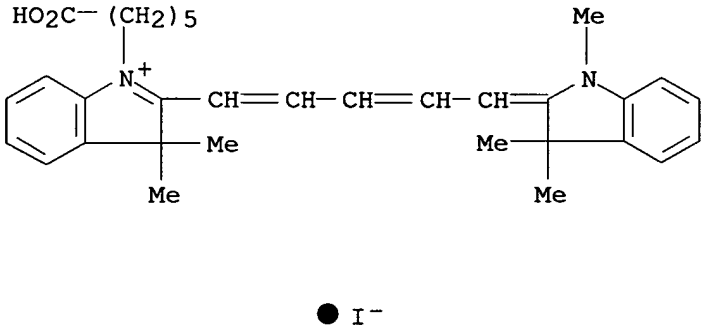




● Cl^-

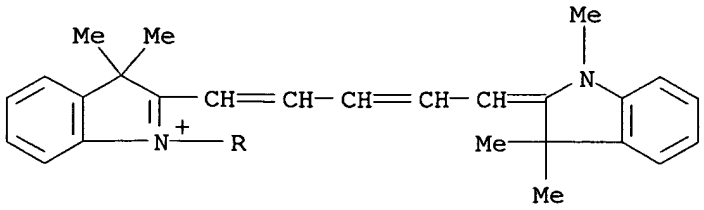


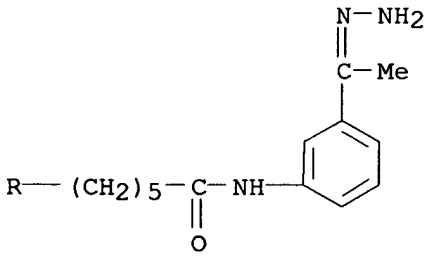
RN 475270-50-9 CAPLUS
CN 3H-Indolium, 1-(5-carboxypentyl)-2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-, iodide (9CI) (CA INDEX NAME)



RN 475270-52-1 CAPLUS
CN 3H-Indolium, 2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-1-[6-[[3-(1-hydrazonoethyl)phenyl]amino]-6-oxohexyl]-3,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

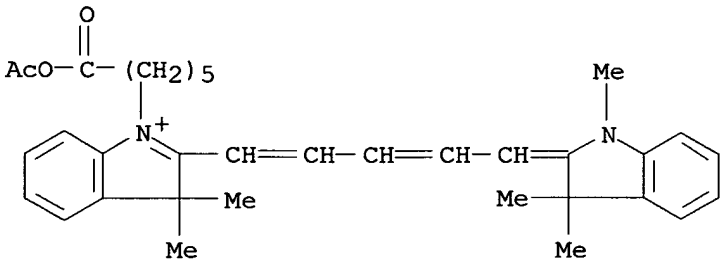




PAGE 2-A

● Cl^-

RN 475270-59-8 CAPLUS
CN 3H-Indolium, 1-[6-(acetyloxy)-6-oxohexyl]-2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br^-

L20 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:832909 CAPLUS
DOCUMENT NUMBER: 137:348832
TITLE: Mass spectrometric analysis of nucleic acids using oligonucleotides modified with mass labels
INVENTOR(S): Grosveld, Frank
PATENT ASSIGNEE(S): Erasmus Universiteit Rotterdam, Neth.
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002086051	A2	20021031	WO 2002-IB2298	20020424
WO 2002086051	A3	20031120		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2445248	AA	20021031	CA 2002-2445248	20020424
EP 1385932	A2	20040204	EP 2002-735871	20020424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005500824	T2	20050113	JP 2002-583567	20020424
BR 2002009205	A	20051213	BR 2002-9205	20020424
US 2004137570	A1	20040715	US 2003-693308	20031024
PRIORITY APPLN. INFO.:			GB 2001-10030 A	20010424
			GB 2001-10029 A	20010424
			WO 2002-IB2298 W	20020424

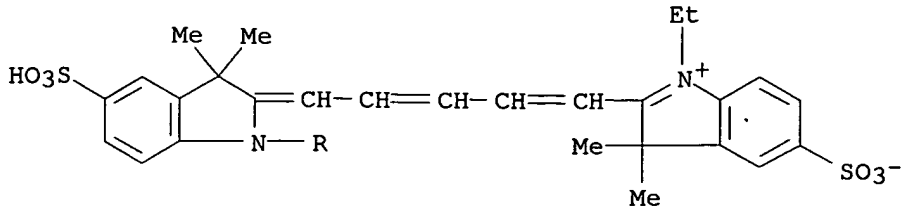
AB The present invention relates to nucleic acid anal. and in particular, but not exclusively, computational aspects of nucleic acid anal. The present invention provides a method for constructing a set, or repertoire, of sequence-specific binding mols. which are differentiable by mass. According to an aspect of the present invention, there is provided a method for constructing a repertoire of oligomers differentiable by mass, comprising: (a) providing a heterogeneous pool of monomers, wherein said monomers are modified by addition of one or more of a selection of mass labels; (b) optionally, providing a heterogeneous pool of unlabeled monomers; (c) determining the monomer sequences of the oligomers to be represented in the repertoire and calculating the number and nature of the mass labels to be incorporated into each monomer such that each oligomer differs in mass; and (d) assembling a plurality of labeled monomers and, optionally, one or more unlabeled monomers, to form the oligomers. The repertoire is constructed so that each oligomer with a different sequence has a different mass characteristic. The members of the repertoire which hybridized to the nucleic acid can then be identified by a mass anal. In another aspect, the invention provides a method for analyzing nucleic acid in a biol. sample, comprising the steps of: (a) immobilizing the nucleic acid (s) in the sample onto a solid support; (b) hybridizing to the nucleic acid (s) at a desired stringency a repertoire of oligonucleotides, and eluting those members of the repertoire which do not hybridize at the desired stringency; (c) eluting the repertoire members hybridized in step (b) and analyzing said members to resolve their mass. A powerful technique to detect and quantify nucleic acid sequences based on the identification of oligomers according to their mass is provided. The technique does not suffer from the disadvantages associated with 32P-labeling or forming biotinylated or fluorescein-conjugated probes and when coupled with a mass spectrometric anal. gives rapid, precise and unambiguous results.

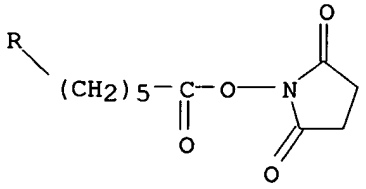
IT **146368-14-1**, Cy5
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(Cy5, oligonucleotide modification with; mass spectrometric anal. of nucleic acids using oligonucleotides modified with mass labels)

RN 146368-14-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-

dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)





L20 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:736109 CAPLUS
DOCUMENT NUMBER: 137:257647
TITLE: Use of a substantially cell membrane impermeable arsenoxide compound for treating arthritis
INVENTOR(S): Hogg, Philip John; Donoghue, Neil
PATENT ASSIGNEE(S): Unisearch Limited, Australia
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074305	A1	20020926	WO 2002-AU310	20020319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1379233	A1	20040114	EP 2002-704485	20020319
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004138102	A1	20040715	US 2004-472252	20040315
PRIORITY APPLN. INFO.:			AU 2001-3798	A 20010319
			WO 2002-AU310	W 20020319

OTHER SOURCE(S): MARPAT 137:257647

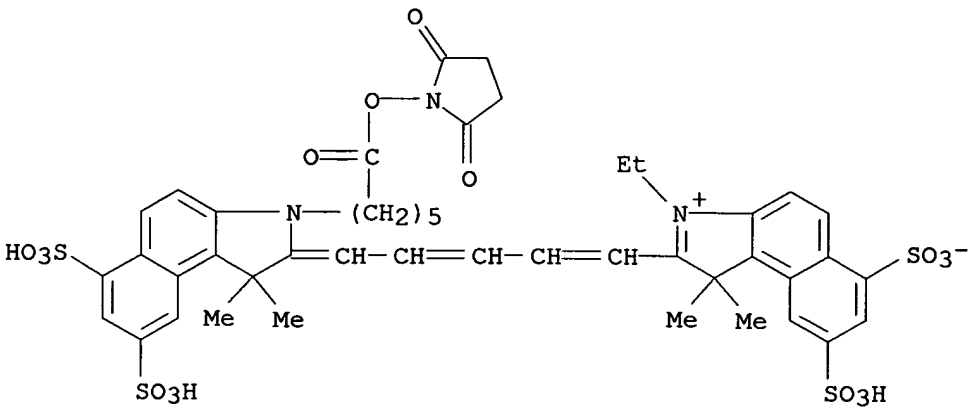
AB The invention provides a method of treatment and/or prophylaxis of arthritis in a vertebrate, comprising administering a therapeutically effective amount of a compound A-(L-Y)p [A = at least one substantially cell-membrane impermeable pendant group; L = linker and/or spacer group; Y = at least one arsenoxide or arsenoxide equivalent; p = 1-10; the sum total of carbon atoms in A and L together is greater than 6], or a pharmaceutically

acceptable salt thereof, optionally together with a pharmaceutically acceptable carrier, diluent or excipient. Preparation of compds. of the invention is described.

IT **172777-84-3D**, Cy 5.5, linked arsenoxide derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cell membrane impermeable arsenoxide compound for treating arthritis)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

IT **331722-80-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(cell membrane impermeable arsenoxide compound for treating arthritis)

RN 331722-80-6 CAPLUS

CN Glycine, N-[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]-L-γ-glutamyl-S-[2-[(4-arsenosophenyl)amino]-2-oxoethyl]-L-cysteinyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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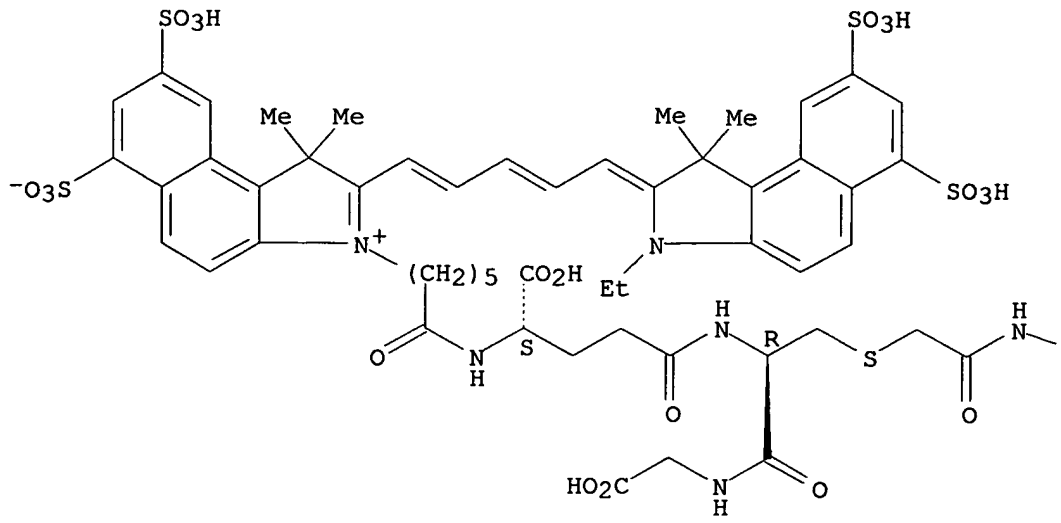
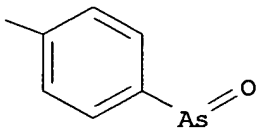


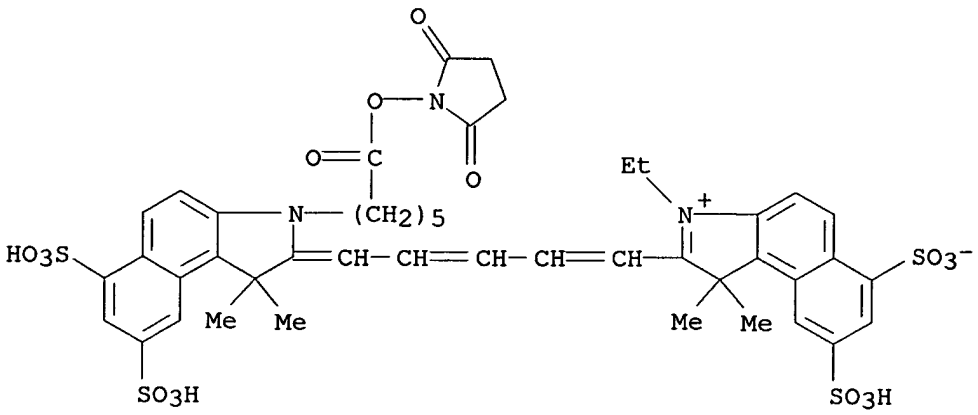
PAGE 1-B



IT **172777-84-3**, Cy 5.5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; cell membrane impermeable arsenoxide compound for treating arthritis)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:904732 CAPLUS
DOCUMENT NUMBER: 136:34316
TITLE: Microarrays for performing proteomic analyses
INVENTOR(S): Charych, Deborah; Beausoleil, Eric; Zuckermann, Ronald N.
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001094946	A2	20011213	WO 2001-US18066	20010604
WO 2001094946	A3	20030130		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1297338	A2	20030402	EP 2001-946078	20010604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003536073	T2	20031202	JP 2002-502444	20010604
PRIORITY APPLN. INFO.:			US 2000-209711P	P 20000605
			WO 2001-US18066	W 20010604

AB Provided are peptidomimetic protein-binding arrays, their manufacture, use, and application. The protein-binding array elements of the invention include a peptidomimetic segment linked to a solid support via a stable anchor. The invention contemplates peptidomimetic array element library synthesis, distribution, and spotting of array elements onto solid planar substrates, labeling of complex protein mixts., and the anal. of differential protein

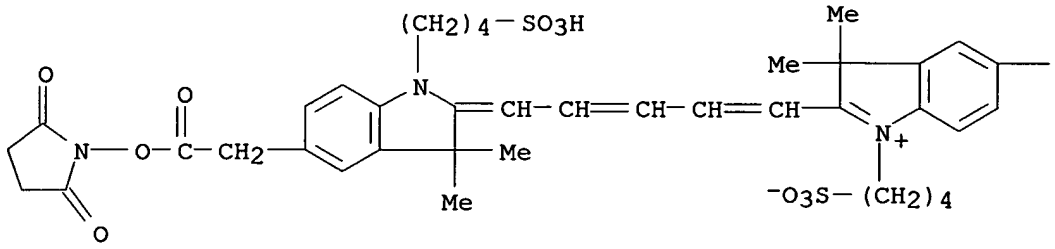
binding to the array. The invention also enables the enrichment or purification, and subsequent sequencing or structural anal. of proteins that are identified as differential by the array screen. Kits including proteomic microarrays in accordance with the present invention are also provided.

IT **144377-05-9**, Cy 5
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(microarrays for performing proteomic analyses)

RN 144377-05-9 CAPLUS

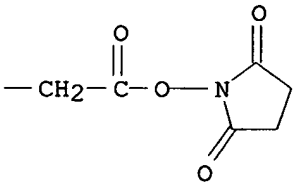
CN 3H-Indolium, 5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-2-[5-[5-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



L20 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:228897 CAPLUS
DOCUMENT NUMBER: 134:261272
TITLE: Cell membrane-impermeable arsenoxide compounds, their preparation, pharmaceutical compositions, and therapeutic and diagnostic use
INVENTOR(S): Hogg, Philip John; Donoghue, Neil
PATENT ASSIGNEE(S): Unisearch Limited, Australia
SOURCE: PCT Int. Appl., 122 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021628	A1	20010329	WO 2000-AU1143	20000920

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2385322	AA	20010329	CA 2000-2385322		20000920
EP 1228076	A1	20020807	EP 2000-965636		20000920
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
JP 2003509516	T2	20030311	JP 2001-525003		20000920
AU 778781	B2	20041223	AU 2000-76320		20000920
ZA 2002002272	A	20030725	ZA 2002-2272		20020320
PRIORITY APPLN. INFO.:			AU 1999-2967	A	19990920
			WO 2000-AU1143	W	20000920

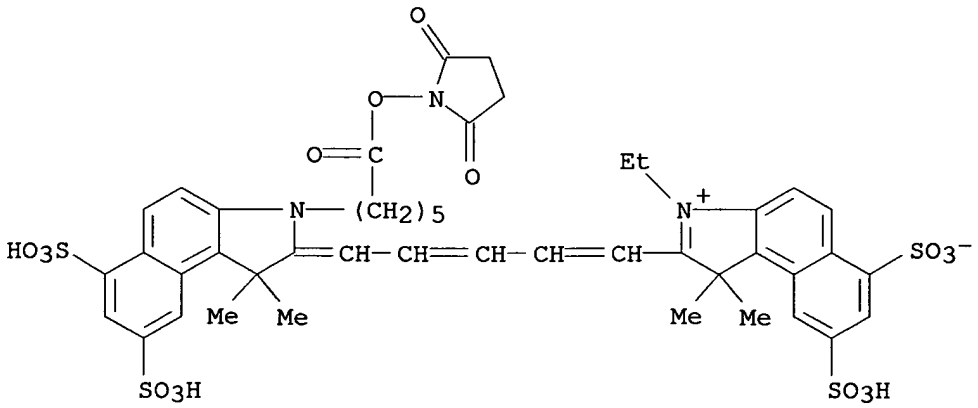
OTHER SOURCE(S): MARPAT 134:261272

AB The invention discloses compds. A(LY)p, (A = ≥1 substantially cell-membrane impermeable pendant group; L = linker and/or spacer; Y = ≥1 arsenoxide or arsenoxide equivalent; p = 1-10; sum total of C atoms in A and L together >6). Preparation of e.g. 4-[N-(S-glutathionylacetyl)amino]phenylarsenoxide is described, as are e.g. the antitumor activity, tumor imaging ability, and activity inhibiting HIV infection of compds. of the invention. Pharmaceutical formulations are also described.

IT **172777-84-3**, Cy5.5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; substantially cell membrane-impermeable compound and use thereof)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

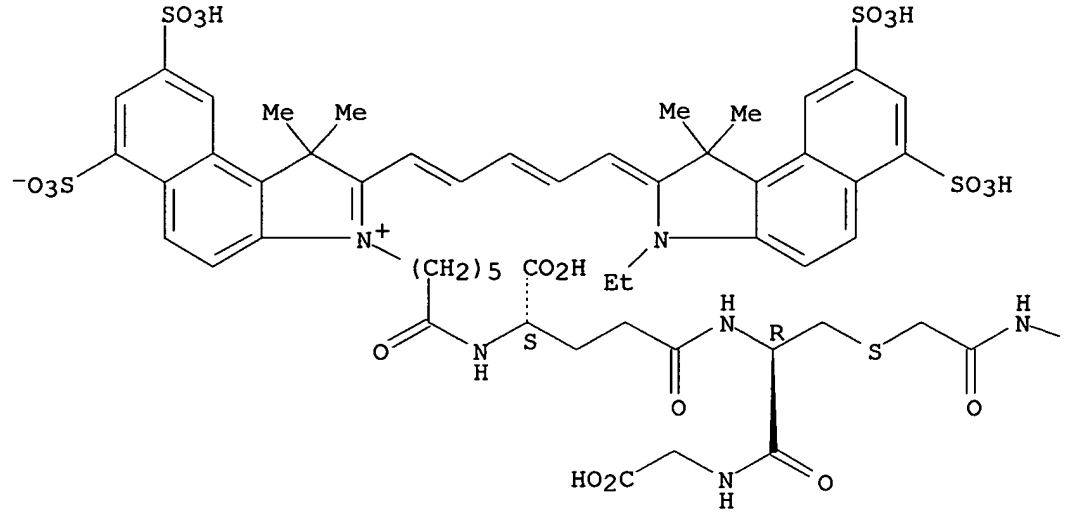
IT **331722-80-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(substantially cell membrane-impermeable compound and use thereof)

RN 331722-80-6 CAPLUS

CN Glycine, N-[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]-L-γ-glutamyl-S-[2-[(4-arsenosophenyl)amino]-2-oxoethyl]-L-cysteinyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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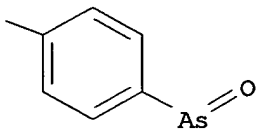
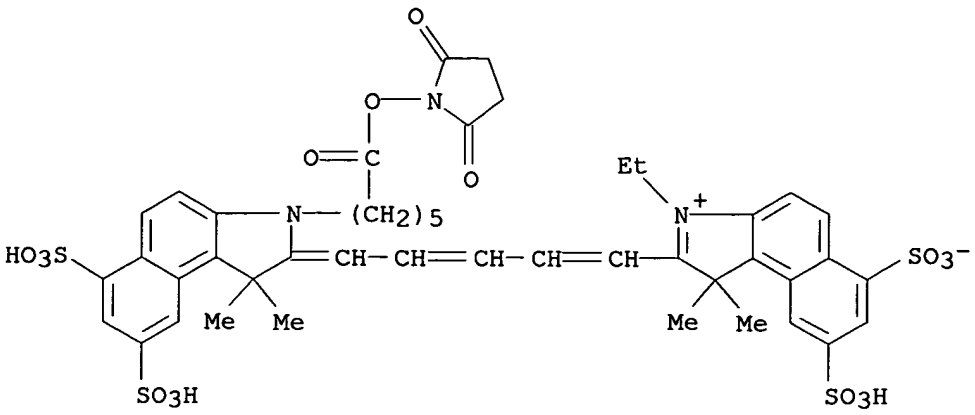


IT **172777-84-3D**, Cy5.5, arsenoxide derivs.
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(substantially cell membrane-impermeable compound and use thereof)

RN 172777-84-3 CAPLUS

CN 1H-Benz[e]indolium, 2-[5-[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadienyl]-3-ethyl-1,1-dimethyl-6,8-disulfo-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:696939 CAPLUS
DOCUMENT NUMBER: 129:299898
TITLE: A trans-platinum based compound, a diagnostic kit comprising said compound and a method for labeling a bio-organic molecule wherein use is made of said compound
INVENTOR(S): Houthoff, Hendrik Jan; Reedijk, Jan; Jelsma, Tinka; Heetebrij, Rob J.; Volkers, Herman H.
PATENT ASSIGNEE(S): Kreatech Biotechnology B.V., Neth.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 870770	A1	19981014	EP 1997-201066		19970410
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
CA 2286668	AA	19981015	CA 1998-2286668		19980409
EP 973785	A1	20000126	EP 1998-912826		19980409
EP 973785	B1	20031203			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI					
NZ 500184	A	20010831	NZ 1998-500184		19980409
JP 2001521511	T2	20011106	JP 1998-542631		19980409
AT 255587	E	20031215	AT 1998-912826		19980409
PT 973785	T	20040430	PT 1998-912826		19980409
ES 2212279	T3	20040716	ES 1998-912826		19980409
MX 9909189	A	20000630	MX 1999-9189		19991007
US 6248531	B1	20010619	US 1999-402735		19991221
PRIORITY APPLN. INFO.:			EP 1997-201066	A	19970410
			WO 1998-NL206	W	19980409

OTHER SOURCE(S): MARPAT 129:299898
AB The present invention is concerned with a trans-platinum based compound for use in a method for labeling a bio-organic mol. The syntheses and applications of several platinum based compds. are presented. The

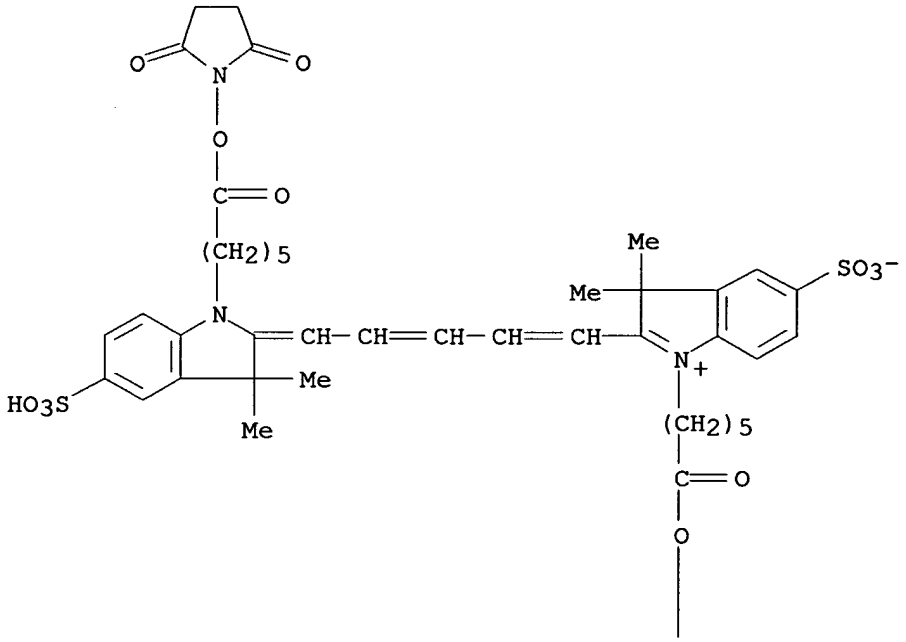
incorporation of representative compds. into DNA is illustrated.

IT **146368-15-2**, Cy 5
RL: RCT (Reactant); RACT (Reactant or reagent)
(trans-platinum based compound, a diagnostic kit and a method for labeling a bio-organic mol.)

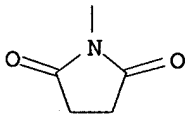
RN 146368-15-2 CAPLUS

CN 3H-Indolium, 1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:682401 CAPLUS
DOCUMENT NUMBER: 129:313127
TITLE: Trans-platinum compound and coordination with biomolecules including DNA
INVENTOR(S): Houthoff, Hendrik Jan; Reedijk, Jan; Volkers, Herman H.; Heetebrij, Robert Jochem
PATENT ASSIGNEE(S): Kreatech Biotechnology B.V., Neth.
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9845304	A1	19981015	WO 1998-NL206	19980409
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2286668	AA	19981015	CA 1998-2286668	19980409
AU 9867517	A1	19981030	AU 1998-67517	19980409
AU 737441	B2	20010816		
EP 973785	A1	20000126	EP 1998-912826	19980409
EP 973785	B1	20031203		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
NZ 500184	A	20010831	NZ 1998-500184	19980409
JP 2001521511	T2	20011106	JP 1998-542631	19980409
AT 255587	E	20031215	AT 1998-912826	19980409
PT 973785	T	20040430	PT 1998-912826	19980409
MX 9909189	A	20000630	MX 1999-9189	19991007
US 6248531	B1	20010619	US 1999-402735	19991221
PRIORITY APPLN. INFO.:			EP 1997-201066 A	19970410
			WO 1998-NL206 W	19980409

OTHER SOURCE(S): MARPAT 129:313127

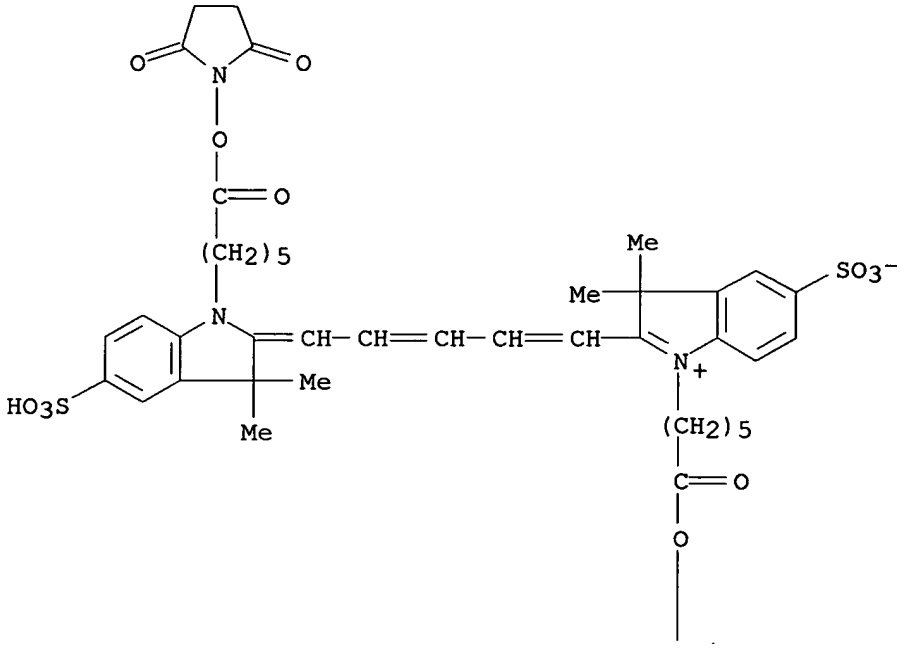
AB The present invention is concerned with a trans-platinum based compound for use in labeling bio-organic mols. The invention describes the synthesis and utilization of several trans-platinum compds. One particular example illustrates the application of the trans-platinum compds. in the labeling of DNA.

IT **146368-15-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(trans-platinum compound and coordination with biomols. including DNA)

RN 146368-15-2 CAPLUS

CN 3H-Indolium, 1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-2-[5-[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A



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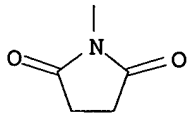

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	127.67	294.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.50	-13.50

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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  DEC 05   CASREACT(R) - Over 10 million reactions available
 NEWS  4  DEC 14   2006 MeSH terms loaded in MEDLINE/LMEDLINE
 NEWS  5  DEC 14   2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
 NEWS  6  DEC 14   CA/CAplus to be enhanced with updated IPC codes
 NEWS  7  DEC 21   IPC search and display fields enhanced in CA/CAplus with the
                   IPC reform
 NEWS  8  DEC 23   New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
                   USPAT2
 NEWS  9  JAN 13   IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
 NEWS 10  JAN 13   New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                   INPADOC
 NEWS 11  JAN 17   Pre-1988 INPI data added to MARPAT
 NEWS 12  JAN 17   IPC 8 in the WPI family of databases including WPIFV
 NEWS 13  JAN 30   Saved answer limit increased
 NEWS 14  JAN 31   Monthly current-awareness alert (SDI) frequency
                   added to TULSA
 NEWS 15  FEB 21   STN AnaVist, Version 1.1, lets you share your STN AnaVist
                   visualization results
 NEWS 16  FEB 22   Status of current WO (PCT) information on STN
 NEWS 17  FEB 22   The IPC thesaurus added to additional patent databases on STN
 NEWS 18  FEB 22   Updates in EPFULL; IPC 8 enhancements added

 NEWS EXPRESS  FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
               V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
               http://download.cas.org/express/v8.0-Discover/

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FILE 'HOME' ENTERED AT 13:19:58 ON 27 FEB 2006

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THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
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index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:20:10 ON 27 FEB 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2
DICTIONARY FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2

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* The CA roles and document type information have been removed from *
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* available and contains the CA role and document type information. *
* *
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http://www.cas.org/ONLINE/UG/regprops.html

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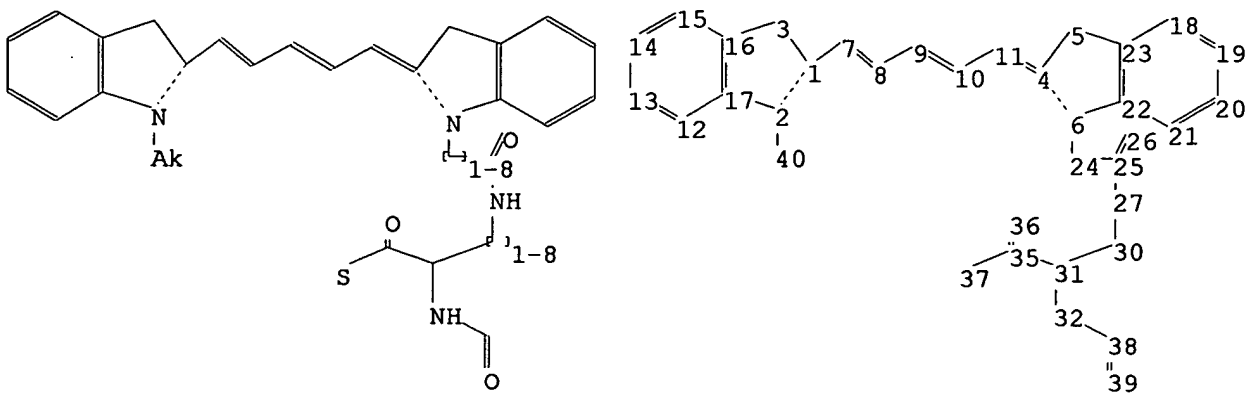

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7 8 9 10 11 24 25 26 27 30 31 32 35 36 37 38 39 40
ring nodes :
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31-32 31-35 32-38 35-36 35-37 38-39
ring bonds :
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16-17 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-17 2-40 4-6 6-22 6-24 25-26 25-27 27-30 31-32 32-38 35-36 35-37
38-39
exact bonds :
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normalized bonds :
12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23
isolated ring systems :
containing 1 : 4 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS 27:CLASS
30:CLASS 31:CLASS 32:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS
40:CLASS

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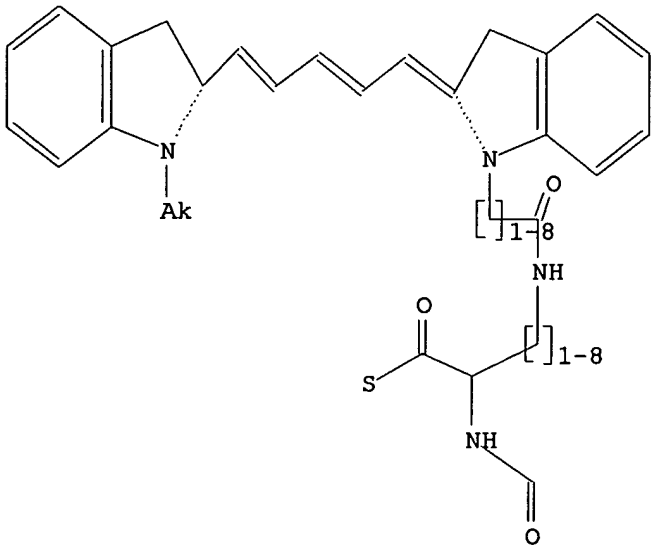

Structure attributes must be viewed using STN Express query preparation.

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

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FULL SEARCH INITIATED 13:20:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        5 TO ITERATE

100.0% PROCESSED         5 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L3             1 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   166.94     167.15

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FILE COVERS 1907 - 27 Feb 2006 VOL 144 ISS 10
FILE LAST UPDATED: 26 Feb 2006 (20060226/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4 1 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:100690 CAPLUS
DOCUMENT NUMBER: 140:146515
TITLE: Site-specific labeling of proteins using cyanine dye reporters
INVENTOR(S): Cotton, Graham John
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004023408	A1	20040205	US 2002-241333	20020911
CA 2493309	AA	20040205	CA 2003-2493309	20030728
WO 2004011556	A1	20040205	WO 2003-GB3196	20030728
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003246957	A1	20040216	AU 2003-246957	20030728
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US 2005239144	A1	20051027	US 2005-522675	20050127
PRIORITY APPLN. INFO.:			GB 2002-17556 A	20020730
			US 2002-241333 A	20020911
			WO 2003-GB3196 W	20030728

OTHER SOURCE(S): MARPAT 140:146515
AB The invention provides new cyanine dye reagents and methods that afford direct attachment of the cyanine dye reporter to either the N-terminus or C-terminus of a synthetic or recombinant peptide or protein and their derivs., in a site-specific manner, coupled with purification of the resultant

labeled mol. Compds. D-L1-M(F)-L2-B [D is a fluorescent cyanine dye; B is a bioaffinity tag; F is a chemical entity which includes a target bonding group selected from the group consisting of thioester groups and 1,2-aminothiol groups; M is a group adapted for attaching to F; L1, L2 are groups containing 1-40 linked atoms selected from carbon atoms which may optionally include one or more groups selected from NH, alkylimino, O, CH:CH, CONH, or phenylenyl] are claimed. Thus, α-D-desthiobiotin-ε-Cy5-L-lysine-MESNA (Cy5 is a dye and MESNA is HSCH2CH2SO3H) was prepared and used to label N-terminal cysteine Grb2SH2.

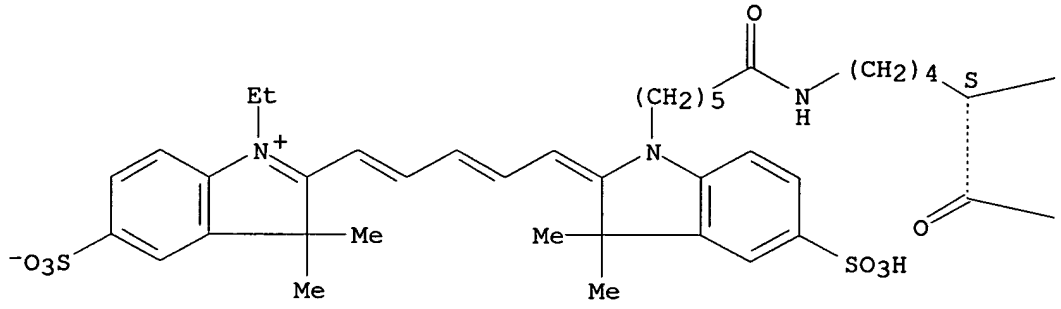
IT **653605-43-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(site-specific labeling of proteins using cyanine dye reporters)

RN 653605-43-7 CAPLUS

CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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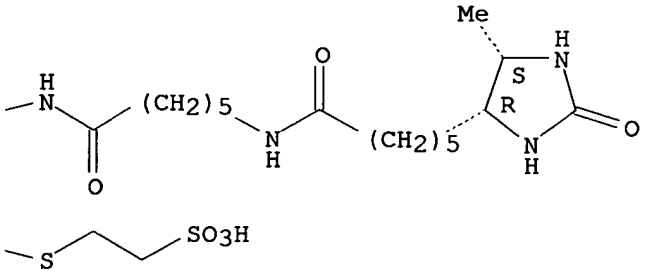


IT **653605-43-7DP**, conjugate with an N-terminal cysteine derivative of Grb2 protein SH2 domain
RL: SPN (Synthetic preparation); PREP (Preparation)
(site-specific labeling of proteins using cyanine dye reporters)

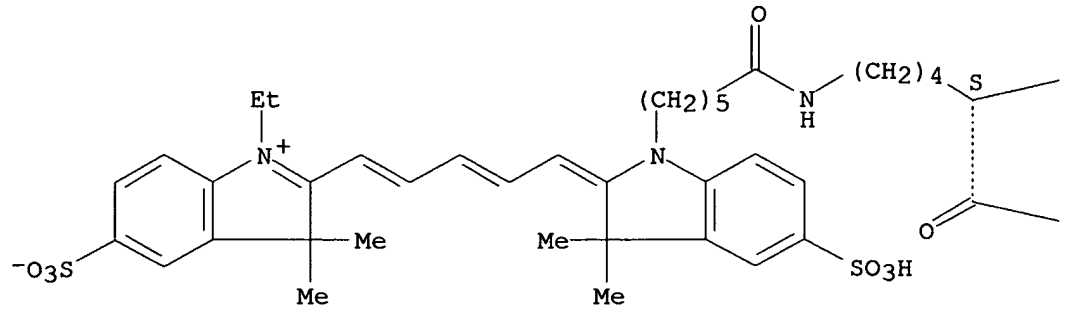
RN 653605-43-7 CAPLUS

CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA

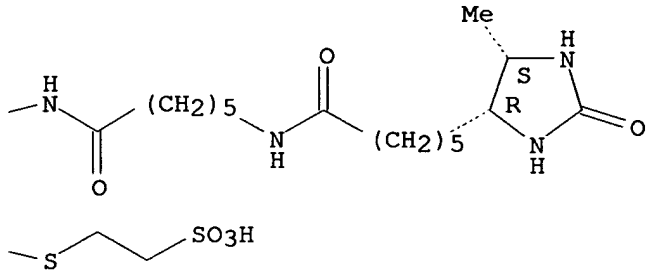
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.49	173.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-0.75

FILE 'REGISTRY' ENTERED AT 13:22:49 ON 27 FEB 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2
DICTIONARY FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when

conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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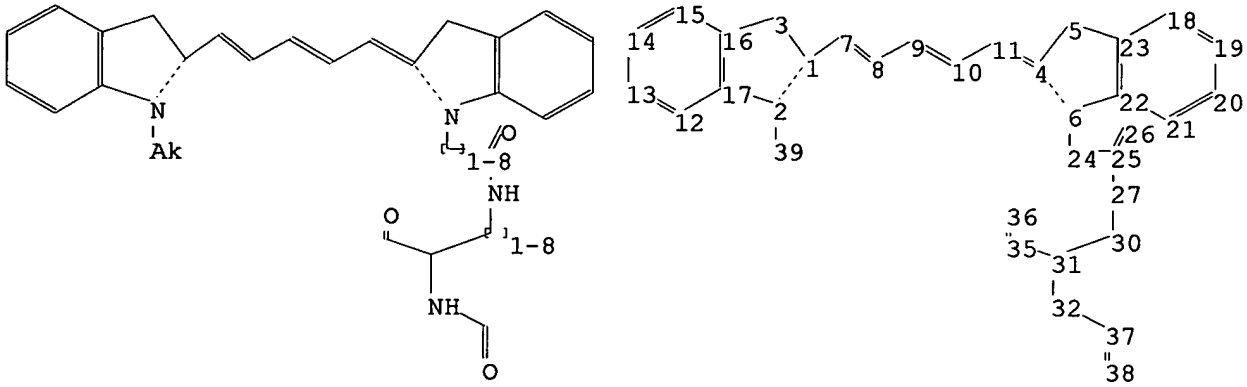
Uploading C:\Program Files\Stnexp\Queries\10241333b.str



chain nodes :
7 8 9 10 11 24 25 26 27 30 31 32 35 36 37 38 39
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-7 2-39 4-11 6-24 7-8 8-9 9-10 10-11 24-25 25-26 25-27 27-30 30-31 31-32 31-35 32-37 35-36 37-38
ring bonds :
1-2 1-3 2-17 3-16 4-5 4-6 5-23 6-22 12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-17 2-39 4-6 6-22 6-24 25-26 25-27 27-30 31-32 32-37 35-36 37-38
exact bonds :
1-3 1-7 3-16 4-5 4-11 5-23 7-8 8-9 9-10 10-11 24-25 30-31 31-35
normalized bonds :
12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23
isolated ring systems :
containing 1 : 4 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS 27:CLASS
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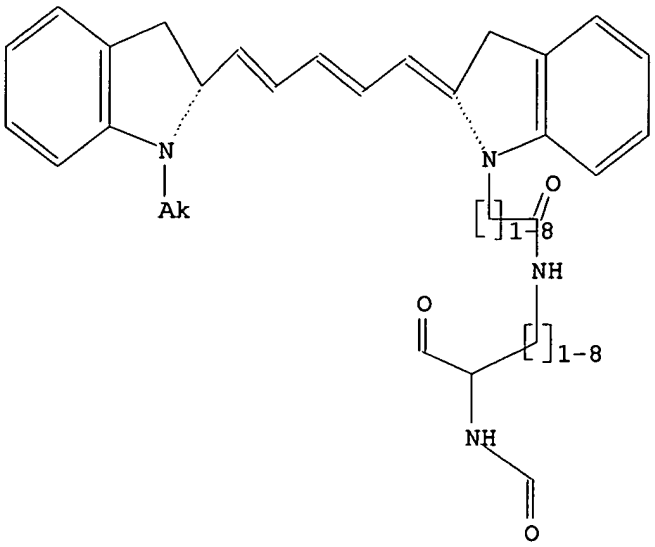
L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 14 TO ITERATE

100.0% PROCESSED 14 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 56 TO 504
PROJECTED ANSWERS: 1 TO 80

L6 1 SEA SSS SAM L5

=> s l5 sss full
FULL SEARCH INITIATED 13:23:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 199 TO ITERATE

100.0% PROCESSED 199 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

L7 8 SEA SSS FUL L5

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.94	340.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.75

FILE 'CAPLUS' ENTERED AT 13:23:29 ON 27 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Feb 2006 VOL 144 ISS 10
FILE LAST UPDATED: 26 Feb 2006 (20060226/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l7
L8 5 L7

=> d l8 ibib abs hitstr tot

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:121215 CAPLUS
DOCUMENT NUMBER: 142:193939
TITLE: Characterizing polypeptides
INVENTOR(S): Schafer, Jurgen; Hamon, Christian; Schwarz, Josef; Pearce, Christopher
PATENT ASSIGNEE(S): Xzillion GmbH & Co. KG, Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005012914	A2	20050210	WO 2004-GB3139	20040722
WO 2005012914	A3	20050630		

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2003-17123 A 20030722

AB Provided is a method for characterizing an analyte by matrix assisted laser desorption ionization (MALDI) mass spectrometry, which method comprises: (a) labeling the analyte with a light-absorbing label that absorbs light at a pre-determined frequency, to form a labeled analyte; (b) embedding the labeled analyte in a matrix formed from at least one compound that absorbs light, to form an embedded labeled analyte; (c) desorbing the embedded labeled analyte by exposing it to light having the pre-determined frequency, to form a desorbed analyte; and (d) detecting the desorbed analyte by mass spectrometry to characterize the analyte; wherein the light absorbing label comprises a fluorophore moiety, and wherein prior to detecting by mass spectrometry, the analyte is selected for detection on the basis of its fluorophore moiety.

IT **838829-82-6 838829-83-7**

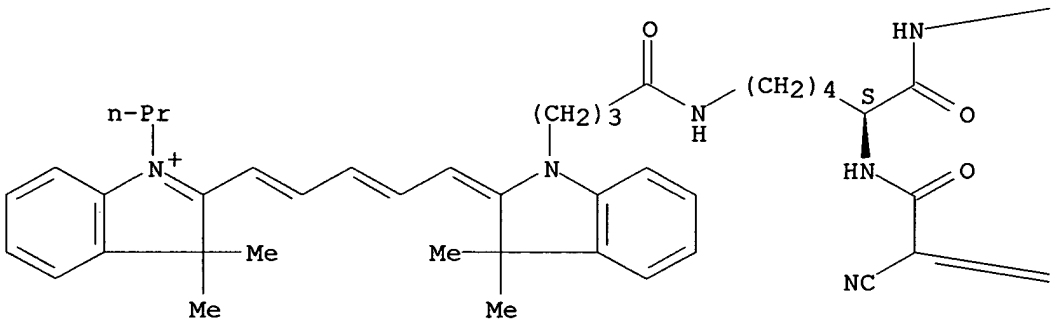
RL: ARU (Analytical role, unclassified); ANST (Analytical study) (characterizing polypeptides)

RN 838829-82-6 CAPLUS

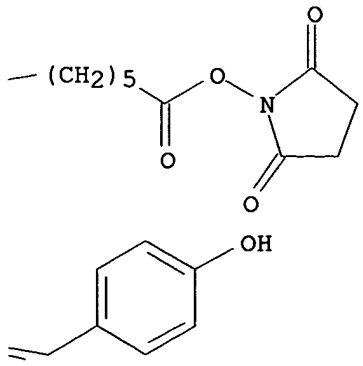
CN 3H-Indolium, 2-[5-[1-[4-[[(5S)-5-[[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]amino]-6-[[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]amino]-6-oxohexyl]amino]-4-oxobutyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-propyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



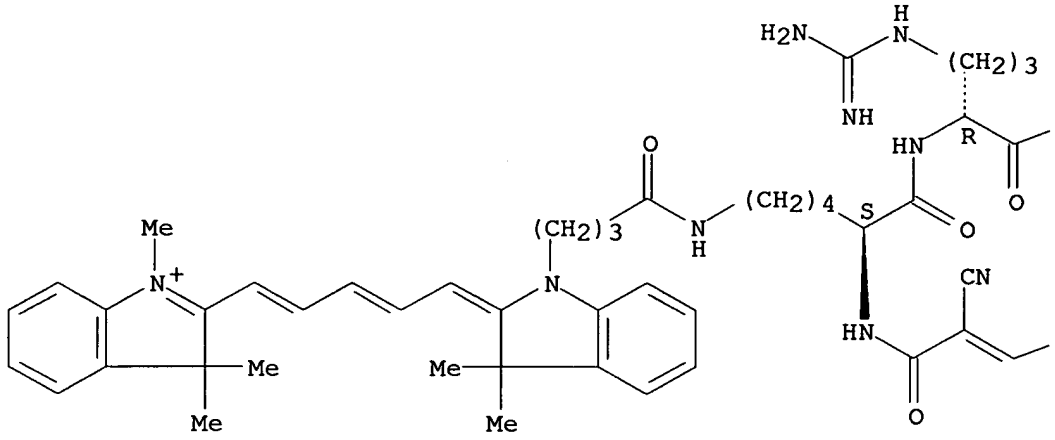
PAGE 1-B



RN 838829-83-7 CAPLUS
CN D-Argininamide, N2-[2-cyano-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-N6-[4-[2,3-dihydro-3,3-dimethyl-2-[5-(1,3,3-trimethyl-3H-indolium-2-yl)-2,4-pentadienylidene]-1H-indol-1-yl]-1-oxobutyl]-L-lysyl-N-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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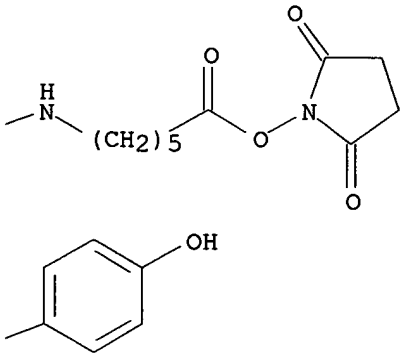

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:100690 CAPLUS
DOCUMENT NUMBER: 140:146515
TITLE: Site-specific labeling of proteins using cyanine dye reporters
INVENTOR(S): Cotton, Graham John
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004023408	A1	20040205	US 2002-241333		20020911
CA 2493309	AA	20040205	CA 2003-2493309		20030728
WO 2004011556	A1	20040205	WO 2003-GB3196		20030728
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2003246957	A1	20040216	AU 2003-246957		20030728
EP 1525266	A1	20050427	EP 2003-771163		20030728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
JP 2005534739	T2	20051117	JP 2004-523938		20030728
US 2005239144	A1	20051027	US 2005-522675		20050127
PRIORITY APPLN. INFO.:			GB 2002-17556	A	20020730
			US 2002-241333	A	20020911
			WO 2003-GB3196	W	20030728

OTHER SOURCE(S): MARPAT 140:146515

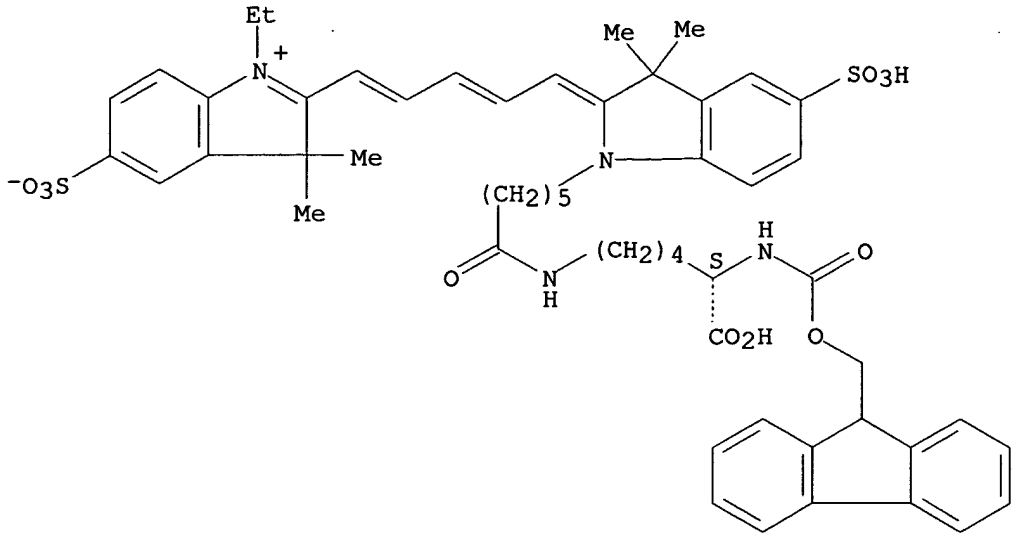
AB The invention provides new cyanine dye reagents and methods that afford direct attachment of the cyanine dye reporter to either the N-terminus or C-terminus of a synthetic or recombinant peptide or protein and their derivs., in a site-specific manner, coupled with purification of the resultant labeled mol. Compds. D-L1-M(F)-L2-B [D is a fluorescent cyanine dye; B is a bioaffinity tag; F is a chemical entity which includes a target bonding group selected from the group consisting of thioester groups and 1,2-aminothiol groups; M is a group adapted for attaching to F; L1, L2 are groups containing 1-40 linked atoms selected from carbon atoms which may optionally include one or more groups selected from NH, alkylimino, O, CH:CH, CONH, or phenylenyl] are claimed. Thus, α-D-desthiobiotin-ε-Cy5-L-lysine-MESNA (Cy5 is a dye and MESNA is HSCH2CH2SO3H) was prepared and used to label N-terminal cysteine Grb2SH2.

IT **312961-84-5P 653605-43-7P 653605-44-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(site-specific labeling of proteins using cyanine dye reporters)

RN 312961-84-5 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-carboxy-5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]pentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

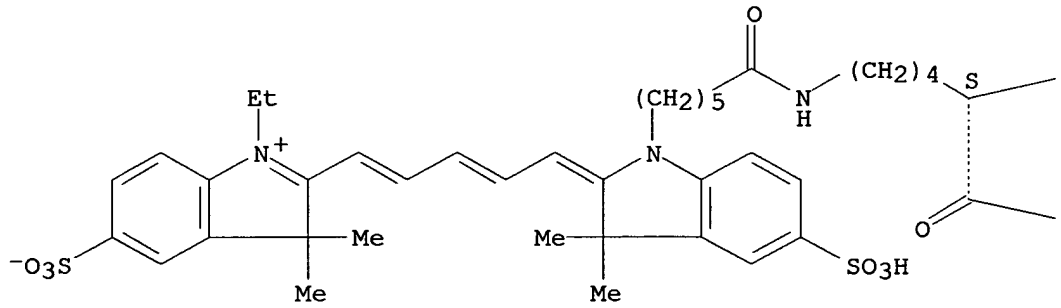
Absolute stereochemistry.
Double bond geometry unknown.



RN 653605-43-7 CAPLUS
CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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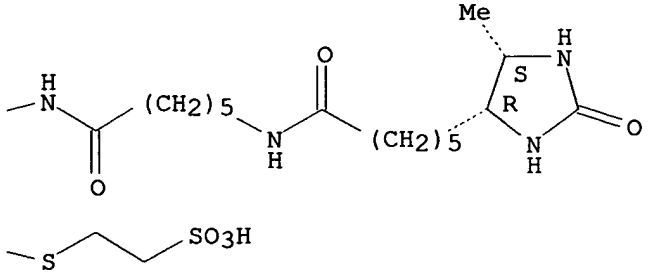
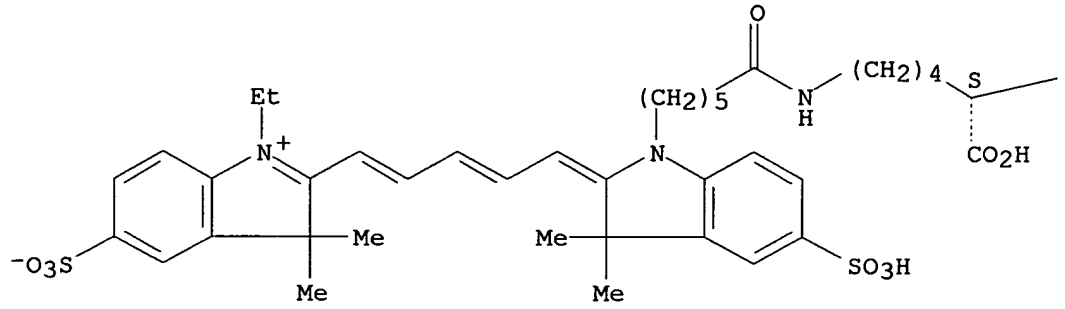


RN 653605-44-8 CAPLUS
CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-carboxy-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]pentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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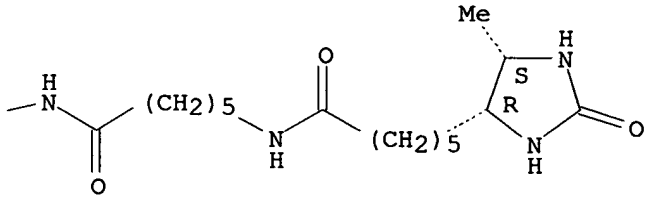
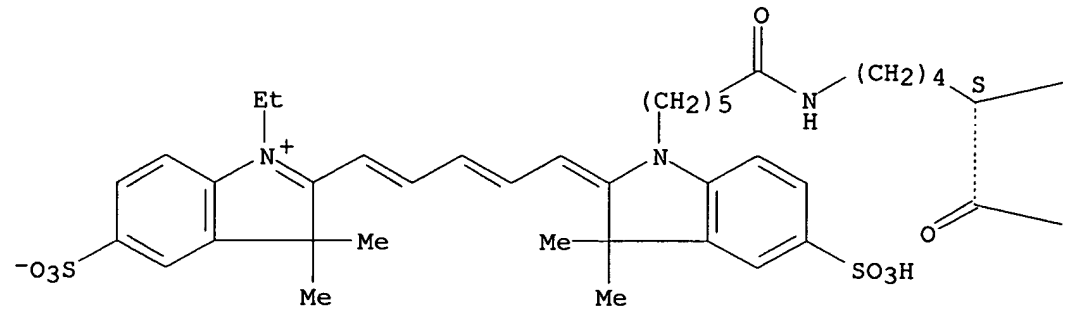


IT **653605-43-7DP**, conjugate with an N-terminal cysteine derivative of Grb2 protein SH2 domain
RL: SPN (Synthetic preparation); PREP (Preparation)
(site-specific labeling of proteins using cyanine dye reporters)
RN 653605-43-7 CAPLUS
CN 3H-Indolium, 2-[5-[1,3-dihydro-3,3-dimethyl-1-[6-[[(5S)-5-[[6-[[6-[(4R,5S)-5-methyl-2-oxo-4-imidazolidinyl]-1-oxohexyl]amino]-1-oxohexyl]amino]-6-oxo-6-[(2-sulfoethyl)thio]hexyl]amino]-6-oxohexyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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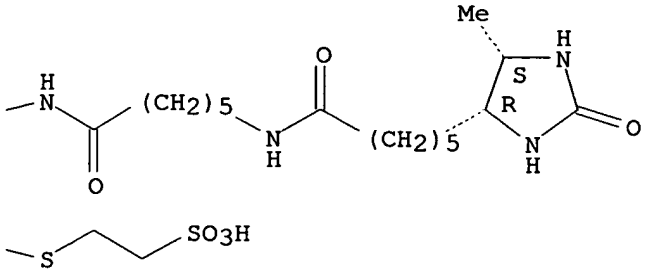

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:153401 CAPLUS
DOCUMENT NUMBER: 138:188074
TITLE: Synthesis of cyclohexyl- or hetero-cyclohexyl-nucleosides and their oligomers or conjugates
INVENTOR(S): Reuschling, Dieter; Muller-Ibeler, Jochen; Wagner, Thomas; Krumm, Thomas; Wermuth, Jochen; Pignot, Marc
PATENT ASSIGNEE(S): Nanogen Recognomics GmbH, Germany
SOURCE: Ger. Offen., 32 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10139730	A1	20030227	DE 2001-10139730	20010813
WO 2003016561	A2	20030227	WO 2002-EP9044	20020813
WO 2003016561	A3	20031204		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1427710		A2	20040616	EP 2002-794784		20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK						
JP 2005500391		T2	20050106	JP 2003-521868		20020813
US 2004249152		A1	20041209	US 2004-486597		20040719
PRIORITY APPLN. INFO.:				DE 2001-10139730	A	20010813
				WO 2002-EP9044	W	20020813

OTHER SOURCE(S): MARPAT 138:188074
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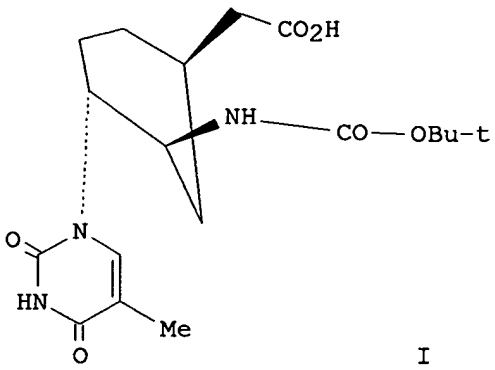


I

AB Cyclohexane-based peptide nucleic acid monomer analogs (CNA-monomers, e.g., I) or their enantiomers were prepared Oligomers of CNA monomers were prepared using solid-phase synthesis techniques. A fluorescently labeled CNA pentamer was hybridized with a biotin-labeled pseudo-nucleic acid octamer with a phosphate-bridged backbone composed of 2→4-ribo-pyranose for thermal decomposition study on base-pairing of the two dissimilar nucleic acid analogs. Thus, thymine was condensed with (1R,5R,8R)-8-iodo-2-azabicyclo[3.3.1]nonan-3-one, the intermediate's secondary amine nitrogens were BOC-protected, the lactam bond cleaved, and the thymine-base ring nitrogen BOC group removed to give I. Addnl., preparation and use of H2O3PO(CH2)3CO2H for use as the N-terminal protecting group in CNA-oligomers was given.

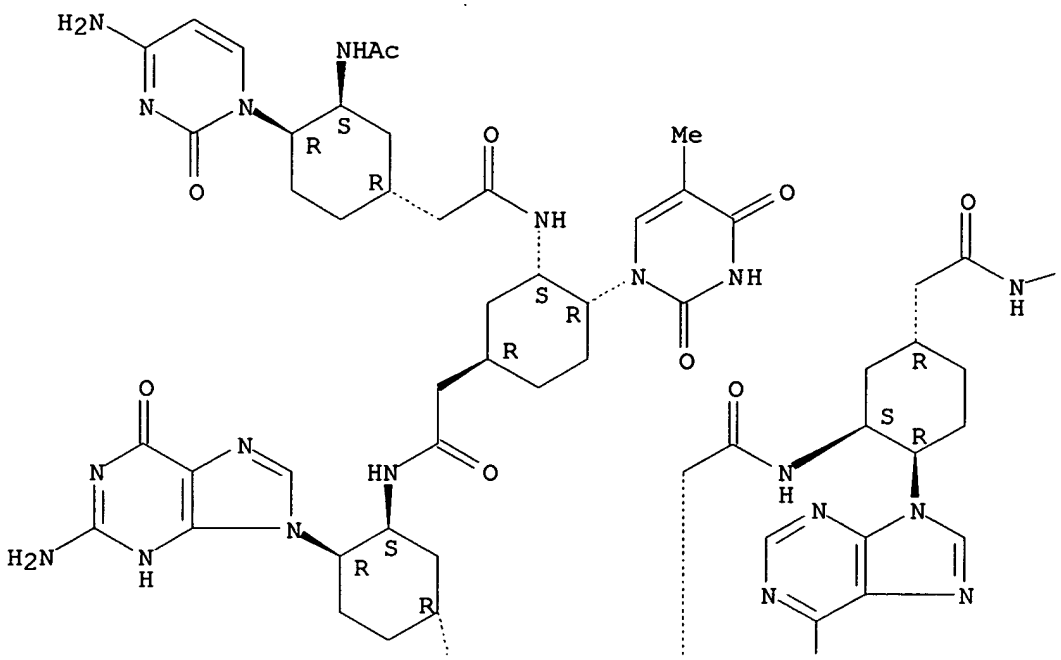
IT **497944-56-6P 497944-63-5P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation of cyclohexyl-nucleoside derivs. and their oligomers or conjugates via base coupling to iodoazabicyclononanone followed by ring-opening)

RN 497944-56-6 CAPLUS

CN 3H-Indolium, 2-[(1E,3E,5E)-5-[1-[6-[[(5S)-5-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-(acetylamino)-4-(4-amino-2-oxo-1(2H)-pyrimidinyl)cyclohexyl]acetyl]amino]-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)cyclohexyl]acetyl]amino]-4-(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)cyclohexyl]acetyl]amino]-4-(6-amino-9H-purin-9-yl)cyclohexyl]acetyl]amino]-4-(6-amino-9H-purin-9-yl)cyclohexyl]acetyl]amino]-5-carboxypentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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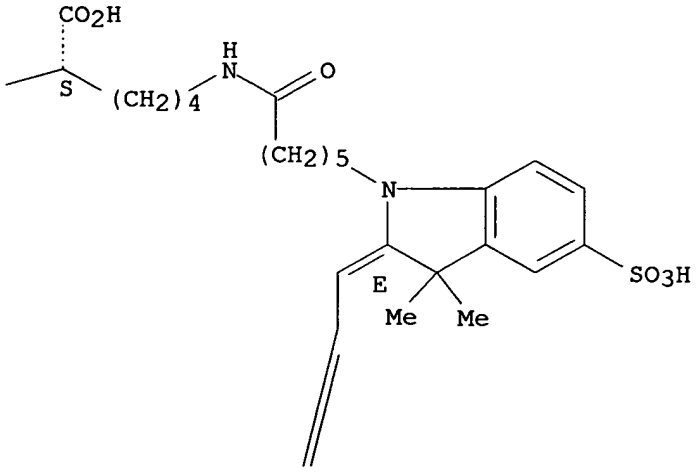

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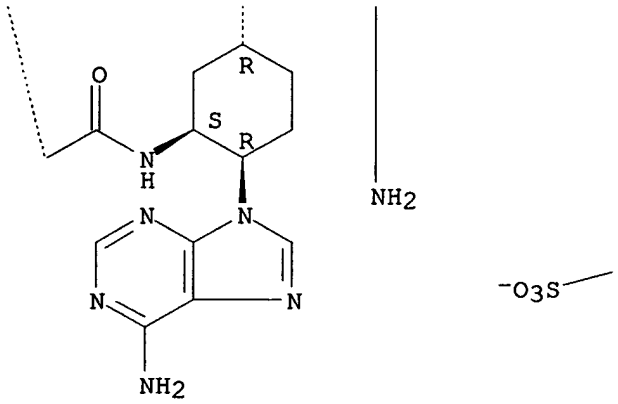

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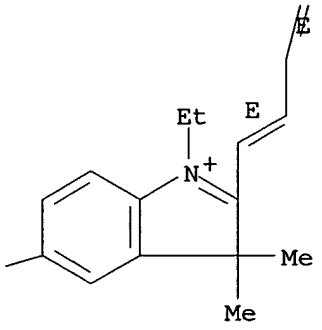


RN 497944-63-5 CAPLUS

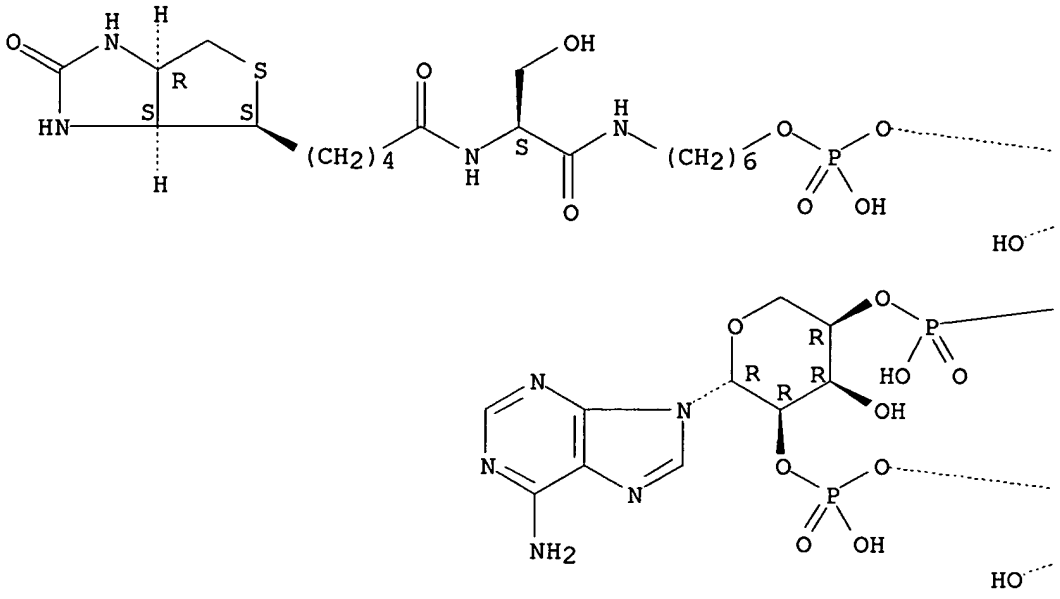
CN β-D-Ribopyranouridine, 4'-O-[(11S)-17-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-hydroxy-11-(hydroxymethyl)-1-oxido-10,13-dioxo-2-oxa-9,12-diaza-1-phosphaheptadec-1-yl]-5-methyl-β-D-ribopyranouridylyl-(2'→4')-β-D-ribopyranoadenylyl-(2'→4')-β-D-ribopyranoguanylyl-(2'→4')-β-D-ribopyranoguanylyl-(2'→4')-β-D-ribopyranoadenylyl-(2'→4')-β-D-ribopyranocytidylyl-(2'→4')-5-methyl-β-D-ribopyranouridylyl-(2'→4')-5-methyl-, complex with 2-[(1E,3E,5E)-5-[1-[6-[[(5S)-5-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-[[[(1R,3S,4R)-3-(acetylamino)-4-(4-amino-2-oxo-1(2H)-pyrimidinyl)cyclohexyl]acetyl]amino]-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)cyclohexyl]acetyl]amino]-4-(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)cyclohexyl]acetyl]amino]-4-(6-amino-9H-purin-9-yl)cyclohexyl]acetyl]amino]-4-(6-amino-9H-purin-9-yl)cyclohexyl]acetyl]amino]-5-carboxypentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-3H-indolium inner salt (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 497944-62-4
CMF C98 H133 N33 O62 P8 S

Absolute stereochemistry.

PAGE 1-A



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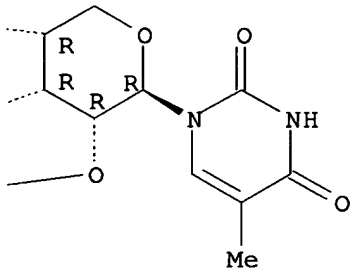

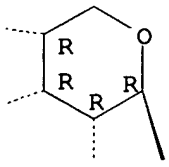

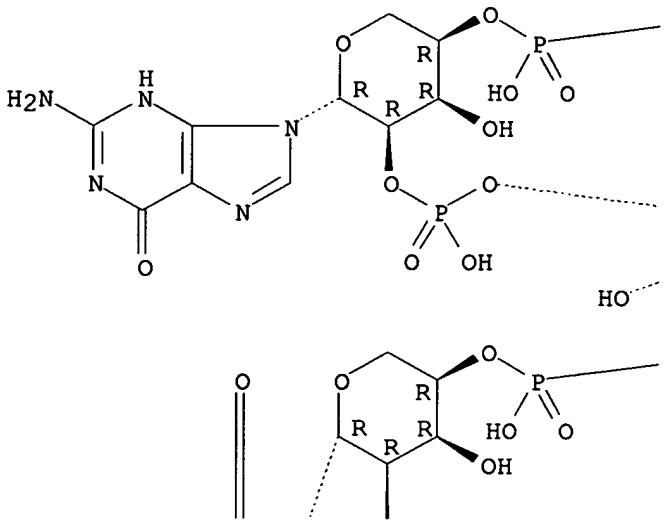

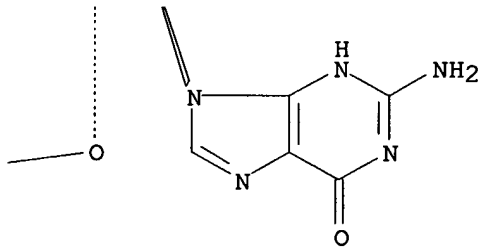

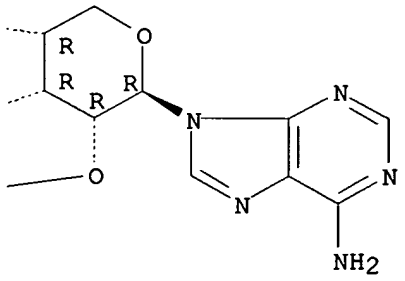

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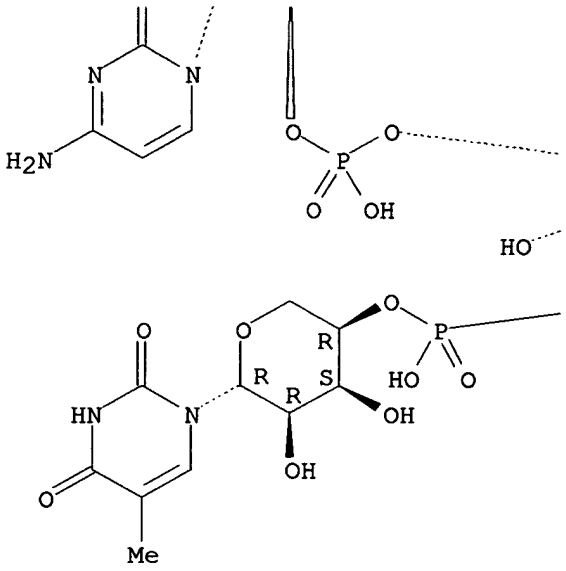

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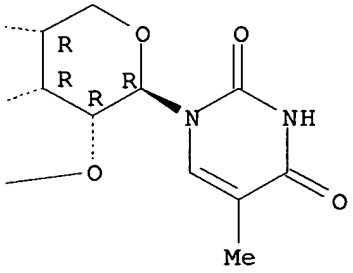
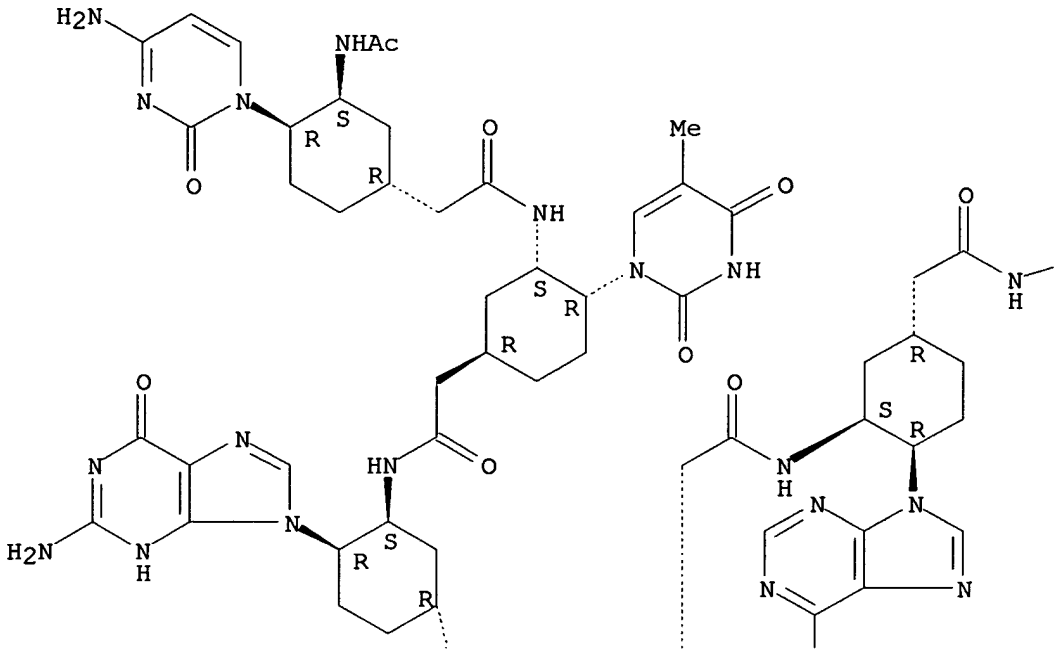


CM 2

CRN 497944-56-6
CMF C105 H135 N29 O19 S2

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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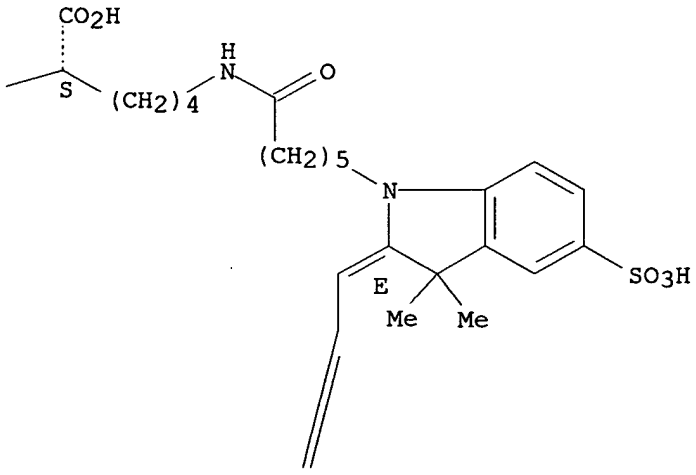

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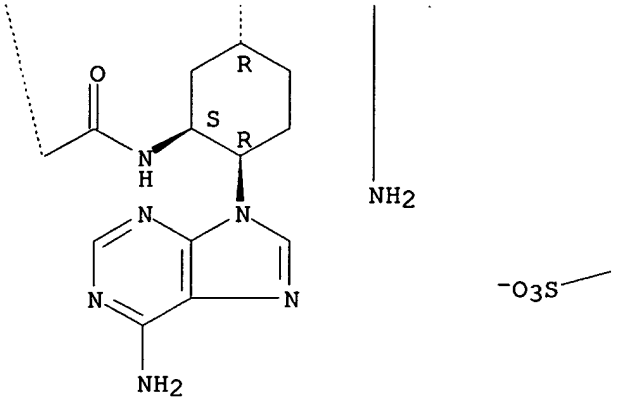

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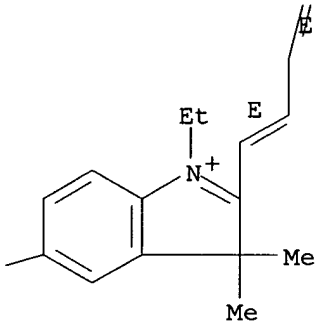

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:881241 CAPLUS
DOCUMENT NUMBER: 134:43377
TITLE: pH-sensitive cyanine dyes as reactive fluorescent reagents
INVENTOR(S): Mujumdar, Ratnakar; Smith, John Anthony
PATENT ASSIGNEE(S): Carnegie Mellon University, USA; Amersham Pharmacia Biotech UK Ltd.
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000075237	A2	20001214	WO 2000-US15682	20000608
WO 2000075237	A3	20020411		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2375740	AA	20001214	CA 2000-2375740	20000608

EP 1212375 A2 20020612 EP 2000-942696 20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 2003501540 T2 20030114 JP 2001-502512 20000608
EP 1394219 A1 20040303 EP 2003-22839 20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY
PRIORITY APPLN. INFO.: US 1999-138297P P 19990609
EP 2000-942696 A3 20000608
WO 2000-US15682 W 20000608
OTHER SOURCE(S): MARPAT 134:43377
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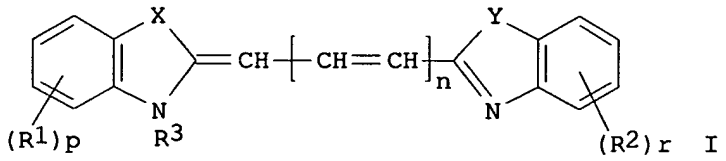


I

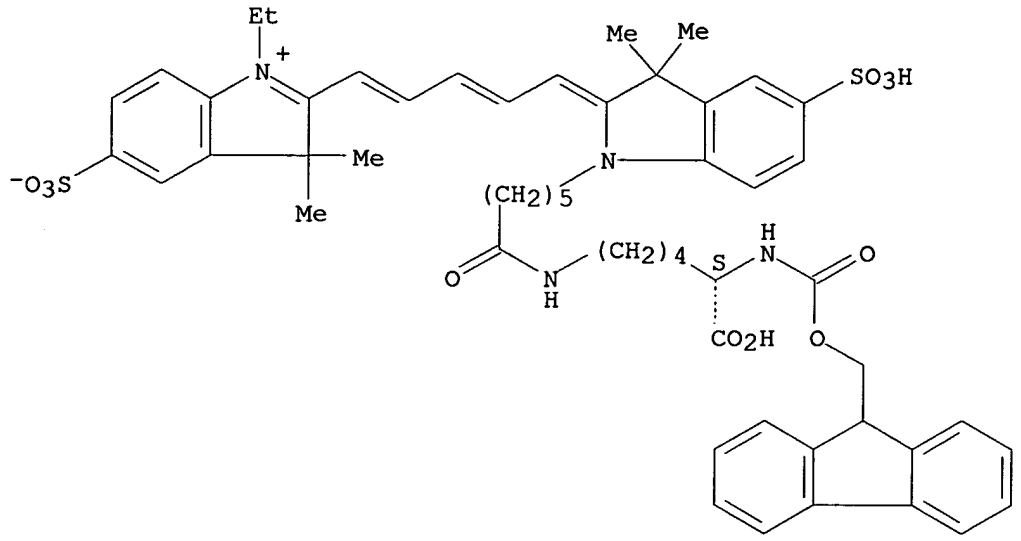
AB The water-soluble cyanine dyes (I; R1, R2 = H, aminomethyl, sulfonate, phosphate, phosphonate, quaternary ammonium, NO2, carboxyalkyl, NCS, alkoxycarbonylaminomethyl; R3 = H, organic group; X, Y = S, O, dialkylmethylene; = 0-3; p, r = 0-4) and their salts and protonated derivs. are fluorescent labels sensitive to acid or base and useful in intracellular environments.

IT **312961-84-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; pH-sensitive cyanine dyes for reactive fluorescent biol. labels)

RN 312961-84-5 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-5-carboxy-5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]pentyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:572765 CAPLUS
DOCUMENT NUMBER: 133:335456
TITLE: A strategy for highly parallel synthesis of tyrosine- and histidine-reactive labeling reagents
AUTHOR(S): Lopez-Calle, E.; Fries, J. R.; Riester, D.; Winkler, D.
CORPORATE SOURCE: EVOTEC BioSystems AG, Hamburg, D-22525, Germany
SOURCE: Chimica Oggi (2000), 18(6), 28-32
CODEN: CHOGDS; ISSN: 0392-839X
PUBLISHER: TeknoScienze
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:335456
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The authors described a method for the fast and effective synthesis of tyrosine- and histidine-reactive labeling reagents, some of them being fluorescent. The labeling reagents were derivatized with lysine and p-aminobenzoic acid on solid phase. For example, tetramethylrhodamine derivative I was prepared; the free amino moiety in I was converted to its diazonium form in-situ, and then, reacted with tyrosine to give the labeled tyrosine II. Thus, using this procedure, histidine, atenolol, a peptide (neurotensin) and some proteins (chymotrypsin, streptavidin, alkaline phosphatase, etc.) were similarly labeled.

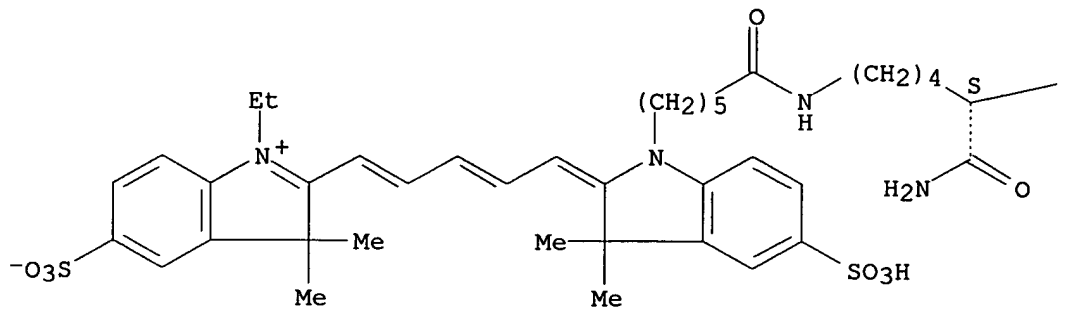
IT **304449-97-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of tyrosine- and histidine-reactive labeling reagents for peptides and proteins)

RN 304449-97-6 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[(5S)-6-amino-5-[(4-aminobenzoyl)amino]-6-oxohexyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



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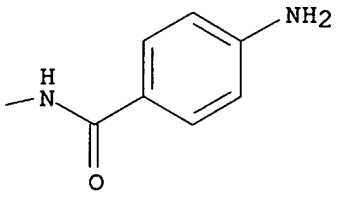

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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